

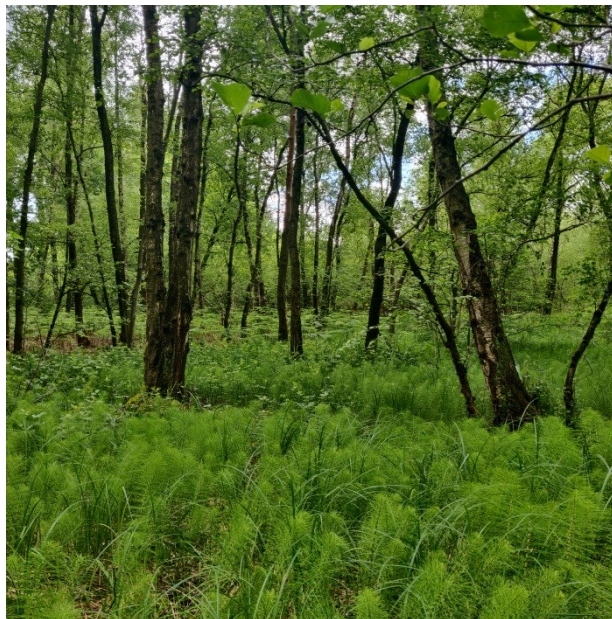
=> Opnamenummer: 1

Objectnaam : Geuldert 1 (16)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/05/30  
X-coördinaat (km) : 192.563000  
Y-coördinaat (km) : 416.805000  
Bloknummer : 46-23-43-58  
Latitude : 51.738700  
Longitude : 5.931036  
Lengte proefvlak (m) : 10.00  
Breedte proefvlak (m) : 10.00  
Opp. proefvlak (m<sup>2</sup>) : 100.00  
Expositie : Geen expositie  
Hellingshoek (graden) : 0  
Altitude : 70  
Bedekking boomlaag (%) : 65  
Boom c2 : 10  
Bedekking struiklaag (%) : 10  
Bedekking kruidlaag (%) : 60  
Bedekking moslaag (%) : 40  
Bedekking strooisellaag (%) : 60  
Hoogte (hoge) boomlaag (m) : 15  
Hoogte lage boomlaag (m) : 8  
Hoogte (hoge) struiklaag (m) : 1.0  
Gem. hoogte (hoge) kruidl (cm) : 100  
Maximale hoogte kruidlaag (cm) : 120  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadraat (J/N) : J  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : vochtig loofbos  
Selectiedoel landelijk : H91E0\_C  
IPI : Elzenbroekbos  
Relief : laagte  
Waterdiepte : 0 dm (droogstaand)  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296928  
Aantal soorten : 18  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 216  
Startjaar PQ : 2015  
Vegetatie : 39-2/3 Elzenbroek met Reuzenpaardestaart en Moeraszegge  
Bodem : veen

#### Associa analysis

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirdn. |                                                 |
|----------|-------|----------|----------|---------|-------------------------------------------------|
| 43AA04   | 36.7  | -0.2     | 0.4      | -0.5    | Carici remotae-Fraxinetum                       |
| 39AA02B  | 38.2  | 0.1      | 0.4      | -0.1    | Carici elongatae-Alnetum cardaminetosum amarae* |
| 40AA02A  | 38.9  | 0.0      | 0.2      | 0.0     | Carici curtae-Betuletum peucedanetosum          |
| 36AA01   | 39.7  | 0.3      | 0.3      | 0.3     | Salicetum auritae                               |
| 43AA05   | 41.6  | -0.2     | 0.4      | -0.5    | Pruno-Fraxinetum                                |
| 39AA02A  | 41.9  | 0.5      | 0.5      | 0.5     | Carici elongatae-Alnetum typicum                |
| 39RG02   | 42.5  | 0.4      | 0.2      | 0.5     | RG Rubus fruticosus-[Alnion glutinosae]         |
| 39AA02E  | 44.6  | 0.3      | 0.4      | 0.3     | Carici elongatae-Alnetum caricetosum curtae     |
| 39RG03   | 45.0  | 1.0      | 0.3      | 1.3     | RG Carex acutiformis-[Alnion glutinosae]        |
| 39AA02D  | 45.4  | 0.5      | 0.5      | 0.5     | Carici elongatae-Alnetum rubetosum idaei        |

\*Classificatie 2015: 39AA02B - Carici elongatae-Alnetum cardaminetosum amarae



|                             | L  | T    | C    | V    | PH    | N    | W_C_N | W_CA  | W_CL    | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG   | W_NH4   | W_NO3  | NTO    | W_PHH  | W_PHK  | W_PO4  | W_PTO | W_VOC  |        |                        |
|-----------------------------|----|------|------|------|-------|------|-------|-------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-------|--------|--------|------------------------|
| Acer pseudoplatanus-kl      | +  | 4    | X    | 4    | 6     | X    | 7     | 20.09 | 8207.39 | 17.480 | 90.742 | 158.84 | 103.69 | 49.07  | 142.057 | 9.9889 | 25.736 | 1790.9 | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn         |
| Acer pseudoplatanus-s2      | r  | 4    | X    | 4    | 6     | X    | 7     | 20.09 | 8207.39 | 17.480 | 90.742 | 158.84 | 103.69 | 49.07  | 142.057 | 9.9889 | 25.736 | 1790.9 | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn         |
| Alnus glutinosa-b1          | 3  | 5    | 5    | 3    | 9=    | 6    | X     | 19.30 | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.01  | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els             |
| Betula pubescens-b1         | 3  | 7    | X    | X    | 8     | 3    | 3     | 23.07 | 5137.94 | 18.336 | 63.695 | 144.28 | 33.529 | 40.42  | 139.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk            |
| Betula pubescens-kl         | 1  | 7    | X    | X    | 8     | 3    | 3     | 23.07 | 5137.94 | 18.336 | 63.695 | 144.28 | 33.529 | 40.42  | 139.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk            |
| Cardamine pratensis-kl      | 1  | 4    | X    | X    | 6     | X    | X     | 13.93 | 55955.4 | 241.03 | -2.720 | 48.890 | 17.663 | 256.3  | 9317.47 | 7.2020 | 7.0958 | 6143.4 | 5.8171 | 5.1620 | 0.58  | 815.90 | 44.763 | Pinksterbloem          |
| Carex acutiformis-kl        | 2b | 7    | X    | 3    | 9*    | 7    | 5     | 16.84 | 65260.5 | 177.85 | -2.684 | 49.780 | 15.513 | 155.0  | 3595.26 | 13.512 | 13.186 | 7261.8 | 5.3648 | 4.6898 | 0.30  | 1456.7 | 49.668 | Moeraszegge            |
| Carex remota-kl             | r  | 3    | 5    | 3    | 8     | X    | X     | 19.69 | 2693.87 | 23.931 | 52.454 | 118.80 | 52.693 | 82.76  | 0102.31 | 11.319 | 24.062 | 3705.0 | 4.9228 | 4.4114 | 0.19  | 579.32 | 27.925 | IJle zegge             |
| Cirsium palustre-kl         | r  | 7    | 5    | 3    | 8     | 4    | 3     | 15.73 | 03209.5 | 183.27 | 4.7126 | 59.449 | 18.424 | 126.8  | 6293.58 | 8.8315 | 5.8259 | 5380.1 | 5.5214 | 4.8393 | 0.37  | 467.05 | 42.527 | Kale jonker            |
| Dryopteris dilatata-kl      | +  | 4    | X    | 3    | 6     | X    | 7     | 23.22 | 862.917 | 18.227 | 97.437 | 184.66 | 69.335 | 32.29  | 323.206 | 12.476 | 6.9128 | 2351.4 | 3.8350 | 3.2829 | 0.20  | 539.10 | 8.8422 | Brede stekelvaren      |
| Epilobium parviflorum-kl    | r  | 7    | 5    | 3    | 9=    | 8    | 6     | 14.11 | 33221.2 | 792.95 | 4.4183 | 57.345 | 16.758 | 195.2  | 4312.75 | 7.6183 | 20.675 | 4327.1 | 7.1756 | 6.5203 | 0.59  | 582.39 | 39.725 | Viltige basterdwederik |
| Equisetum telmateia-kl      | 3  | 5    | 6    | 2    | 8     | 8    | 5     | 18.24 | 43329.3 | 30.645 | 44.352 | 101.14 | 42.400 | 131.3  | 7237.62 | 9.9450 | 34.598 | 4476.3 | 5.3911 | 4.9683 | 0.18  | 593.90 | 38.927 | Reuzenpaardenstaart    |
| Fagus sylvatica-s1          | x  | 3    | 5    | 2    | 5     | X    | X     | 24.48 | 933.060 | 15.135 | 118.64 | 202.23 | 96.861 | 26.22  | 316.268 | 12.574 | 6.9815 | 1939.8 | 3.5429 | 3.1417 | 0.18  | 580.31 | 3.4012 | Beuk                   |
| Galium palustre s.l.-kl     | r  | 6    | 5    | 3    | 9=    | X    | 4     | 15.15 | 65765.5 | 438.58 | -24.93 | 20.099 | -5.049 | 247.8  | 6477.91 | 9.7855 | 8.7579 | 7623.5 | 5.6538 | 4.9052 | 0.28  | 1035.0 | 50.649 | Moeraswalstro          |
| Lonicera periclymenum-b3    | +  | 6    | 5    | 2    | X     | 3    | 4     | 21.84 | 1135.48 | 19.535 | 82.606 | 164.17 | 70.096 | 39.08  | 033.164 | 12.340 | 9.2443 | 1993.2 | 4.2563 | 3.8179 | 0.21  | 339.40 | 14.810 | Wilde kamperfoelie     |
| Quercus robur-kl            | r  | 7    | 6    | 6    | X     | X    | X     | 22.80 | 452.813 | 14.939 | 95.706 | 182.86 | 80.269 | 30.29  | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik               |
| Rubus species-s2            | 2b |      |      |      |       |      |       | 20.47 | 588.969 | 21.514 | 78.470 | 157.90 | 73.201 | 42.33  | 831.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 | Braam (G)              |
| Salix cinerea s. cinerea-b3 | 2a |      |      |      |       |      |       |       |         |        |        |        |        |        |         |        |        |        |        |        |       |        |        | Grauwe wilg            |
| Sorbus aucuparia-s1         | x  | 6    | X    | X    | X     | 4    | X     | 23.37 | 762.910 | 16.696 | 97.651 | 185.63 | 75.249 | 30.73  | 620.999 | 12.851 | 4.4429 | 2124.8 | 3.8335 | 3.3160 | 0.21  | 458.4  | 9.5259 | Wilde lijsterbes       |
| Viburnum opulus-kl          | +  | 6    | 5    | 3    | X     | 7    | 6     | 19.57 | 7563.27 | 22.363 | 62.690 | 126.53 | 69.103 | 73.57  | 298.092 | 9.9383 | 32.283 | 2888.8 | 5.0791 | 4.6208 | 0.20  | 432.85 | 25.054 | Gelderse roos          |
| Gemiddelde indicatie        |    | 5.4  | 5.2  | 3.1  | 7.5   | 5.3  | 5.0   | 19.7  | 1571.4  | 111.5  | 55.5   | 124.7  | 53.1   | 91.2   | 152.9   | 11.0   | 14.0   | 3519.2 | 4.8    | 4.2    | 0.3   | 580.7  | 24.5   |                        |
| Standaarddeviatie           |    | 1.4  | 0.4  | 1.0  | 1.3   | 2.0  | 1.5   | 3.2   | 2086.6  | 193.9  | 41.0   | 53.6   | 31.7   | 72.2   | 168.1   | 1.8    | 10.5   | 1839.4 | 0.9    | 0.8    | 0.1   | 268.0  | 15.0   |                        |
| Mediaan waarde              |    | 6.0  | 5.0  | 3.0  | 8.0   | 5.0  | 5.0   | 20.1  | 207.4   | 21.5   | 63.7   | 144.3  | 52.7   | 49.1   | 42.1    | 11.3   | 9.2    | 2551.4 | 4.8    | 4.3    | 0.2   | 539.1  | 14.9   |                        |
| Som                         |    | 98.0 | 52.0 | 44.0 | 105.0 | 53.0 | 60.0  | 375.2 | *****   | 2118.1 | 1055.0 | 2369.9 | 1009.7 | 1732.1 | 2904.6  | 209.5  | 266.1  | *****  | 91.6   | 80.7   | 5.1   | *****  | 465.9  |                        |
| Aantal observaties (n)      |    | 18.0 | 10.0 | 14.0 | 14.0  | 10.0 | 12.0  | 19.0  | 19.0    | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0    | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0  | 19.0   | 19.0   |                        |

Ellenberg:

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH (Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indiffernt, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 2

Objectnaam : Geuldert 2 (17)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/05/30  
X-coördinaat (km) : 192.550000  
Y-coördinaat (km) : 416.807000  
Bloknummer : 46-23-43-58  
Latitude : 51.738720  
Longitude : 5.930838  
Lengte proefvlak (m) : 10.00  
Breedte proefvlak (m) : 5.00  
Opp. proefvlak (m<sup>2</sup>) : 50.00  
Expositie : Zuidwest  
Hellingshoek (graden) : 10  
Altitude : 76  
Bedekking boomlaag (%) : 50  
Boom c2 : 90  
Bedekking struiklaag (%) : 20  
Struik c2 : 40  
Bedekking kruidlaag (%) : 15  
Bedekking moslaag (%) : 5  
Bedekking strooisellaag (%) : 100  
Hoogte (hoge) boomlaag (m) : 28  
Hoogte lage boomlaag (m) : 10  
Hoogte (hoge) struiklaag (m) : 6.0  
Hoogte lage struiklaag (m) : 1.5  
Gem. hoogte (hoge) kruidl (cm) : 30  
Maximale hoogte kruidlaag (cm) : 130  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadraat (J/N) : J  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : vochtig loofbos  
Selectiedoel landelijk : H91E0\_C  
IPI : Elzenbroekbos  
Relief : laagte  
Waterdiepte : 0 dm (droogstaand)  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296929  
Aantal soorten : 18  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 217  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 43-1 Beuken-Eikenbos met Heksenkruid en Koningsvaren  
Bodem : Onder aan helling; dikke humeuze strooisellaag  
Opmerking : mos vrijwel alleen op dood hout

#### Associa analysis

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirdn. |                                                |
|----------|-------|----------|----------|---------|------------------------------------------------|
| 43AA04   | 36.1  | -0.3     | 0.3      | -0.6    | Carici remotae-Fraxinetum                      |
| 43AA05   | 43.2  | -0.1     | 0.4      | -0.3    | Pruno-Fraxinetum                               |
| 43AB01C  | 48.8  | 0.2      | 0.5      | 0.1     | Stellario-Carpinetum typicum                   |
| 39RG02   | 49.0  | 0.8      | 0.4      | 1.0     | RG Rubus fruticosus-[Alnion glutinosae]        |
| 43AB01E  | 49.6  | 0.5      | 0.8      | 0.3     | Stellario-Carpinetum dryopteridetosum          |
| 43AB01F  | 49.8  | 0.5      | 0.6      | 0.5     | Stellario-Carpinetum oxalidetosum              |
| 43AA01B  | 50.3  | 0.5      | 0.4      | 0.5     | Violo odoratae-Ulmetum inops                   |
| 39AA02B  | 52.8  | 0.4      | 0.5      | 0.3     | Carici elongatae-Alnetum cardaminetosum amarae |
| 43AA01A  | 53.6  | 0.5      | 0.8      | 0.3     | Violo odoratae-Ulmetum allietosum              |
| 43AA02B  | 53.7  | 0.7      | 0.6      | 0.8     | Fraxino-Ulmetum galanthetosum                  |

Classificatie 2015: 42AA03C - Deschampsio-Fagetum isopterygietosum



|                                  |    | L    | T    | C    | V     | PH   | N    | W_C   | N_W_CA  | W_CL   | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG    | W_NH4  | W_NO3  | NTO    | W_PHH  | W_PHK  | W_PO4 | W_PTO  | W_VOC  |                     |
|----------------------------------|----|------|------|------|-------|------|------|-------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-------|--------|--------|---------------------|
| Acer pseudoplatanus-b3           | 2b | 4    | X    | 4    | 6     | X    | 7    | 20.09 | 8207.39 | 17.480 | 90.742 | 158.84 | 103.69 | 49.07  | 142.057 | 9.9889 | 25.736 | 1790.9 | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn      |
| Acer pseudoplatanus-kl           | +  | 4    | X    | 4    | 6     | X    | 7    | 20.09 | 8207.39 | 17.480 | 90.742 | 158.84 | 103.69 | 49.07  | 142.057 | 9.9889 | 25.736 | 1790.9 | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn      |
| Acer pseudoplatanus-s2           | +  | 4    | X    | 4    | 6     | X    | 7    | 20.09 | 8207.39 | 17.480 | 90.742 | 158.84 | 103.69 | 49.07  | 142.057 | 9.9889 | 25.736 | 1790.9 | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn      |
| Alnus glutinosa-b1               | 3  | 5    | 5    | 3    | 9=    | 6    | X    | 19.30 | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.01  | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els          |
| Arum maculatum-kl                | +  | 3    | 6    | 2    | 7     | 7    | 8    | 19.48 | 9459.99 | 18.729 | 95.256 | 146.56 | 100.94 | 70.33  | 575.877 | 8.3842 | 42.383 | 2078.4 | 5.2717 | 5.2445 | 0.17  | 471.65 | 20.354 | Gevlekte aronskelk  |
| Athyrium filix-femina-kl         | +  | 3    | X    | 3    | 7     | X    | 6    | 20.87 | 8403.50 | 21.299 | 67.086 | 135.77 | 58.481 | 62.00  | 067.161 | 11.606 | 21.246 | 3065.5 | 4.7212 | 4.1836 | 0.20  | 496.42 | 22.643 | Wijfjesvaren        |
| Carex acutiformis-kl             | +  | 7    | X    | 3    | 9*    | 7    | 5    | 16.84 | 65260.5 | 177.85 | -2.684 | 49.780 | 15.513 | 155.0  | 3595.26 | 13.512 | 13.186 | 7261.8 | 5.3648 | 4.6898 | 0.30  | 1456.7 | 49.668 | Moeraszegge         |
| Carex remota-kl                  | +  | 3    | 5    | 3    | 8     | X    | X    | 19.69 | 2693.87 | 23.931 | 52.454 | 118.80 | 52.693 | 82.76  | 0102.31 | 11.319 | 24.062 | 3705.0 | 4.9228 | 4.4114 | 0.19  | 579.32 | 27.925 | IJle zegge          |
| Chrysosplenium oppositifolium-kl | +  | 6    | 5    | 2    | 9=    | 5    | 5    | 18.73 | 31393.4 | 26.925 | 49.480 | 107.33 | 47.685 | 107.6  | 9171.48 | 10.140 | 38.891 | 4334.1 | 5.2114 | 4.8251 | 0.16  | 586.53 | 35.657 | Paarbladig goudveil |
| Circaea lutetiana-kl             | 2a | 4    | 5    | 3    | 6     | 7    | 7    | 19.13 | 5707.18 | 20.829 | 73.233 | 132.90 | 94.136 | 83.95  | 997.903 | 8.6703 | 41.539 | 2682.9 | 5.2431 | 5.0432 | 0.17  | 500.67 | 24.287 | Groot heksenkruid   |
| Corylus avellana-b3              | 4  | 6    | 5    | 3    | X     | 5    | X    | 21.24 | 2301.67 | 18.335 | 81.884 | 149.76 | 85.752 | 55.03  | 451.636 | 10.882 | 25.337 | 2397.6 | 4.6663 | 4.1847 | 0.20  | 471.35 | 19.335 | Hazelaar            |
| Corylus avellana-s1              | 2a | 6    | 5    | 3    | X     | 5    | X    | 21.24 | 2301.67 | 18.335 | 81.884 | 149.76 | 85.752 | 55.03  | 451.636 | 10.882 | 25.337 | 2397.6 | 4.6663 | 4.1847 | 0.20  | 471.35 | 19.335 | Hazelaar            |
| Dryopteris dilatata-kl           | +  | 4    | X    | 3    | 6     | X    | 7    | 23.22 | 862.917 | 18.227 | 97.437 | 184.66 | 69.335 | 32.29  | 323.206 | 12.476 | 6.9128 | 2351.4 | 3.8350 | 3.2829 | 0.20  | 539.10 | 8.8422 | Brede stekelvaren   |
| Equisetum telmateia-kl           | r  | 5    | 6    | 2    | 8     | 8    | 5    | 18.24 | 43329.3 | 30.645 | 44.352 | 101.14 | 42.400 | 131.3  | 7237.62 | 9.9450 | 34.598 | 4476.3 | 5.3911 | 4.9683 | 0.18  | 593.90 | 38.927 | Reuzenpaardenstaart |
| Fagus sylvatica-b1               | x  | 3    | 5    | 2    | 5     | X    | X    | 24.48 | 933.060 | 15.135 | 118.64 | 202.23 | 96.861 | 26.22  | 316.268 | 12.574 | 6.9815 | 1939.8 | 3.5429 | 3.1417 | 0.18  | 580.31 | 3.4012 | Beuk                |
| Geranium robertianum-kl          | +  | 5    | X    | 3    | X     | X    | 7    | 18.38 | 5466.08 | 20.577 | 77.321 | 136.82 | 102.80 | 70.34  | 675.820 | 7.9945 | 32.433 | 1819.1 | 5.4396 | 5.4575 | 0.25  | 332.66 | 20.334 | Robertskruid        |
| Geum urbanum-kl                  | r  | 4    | 5    | 5    | 5     | X    | 7    | 18.11 | 8510.47 | 20.470 | 75.897 | 136.09 | 104.98 | 75.10  | 977.022 | 7.7367 | 29.784 | 1885.7 | 5.5085 | 5.4833 | 0.23  | 345.24 | 20.501 | Geel nagelkruid     |
| Osmunda regalis-kl               | 3  | 2a   | 5    | 6    | 2     | 8    | 4    | 21.42 | 8346.15 | 25.185 | 27.599 | 96.072 | 5.9496 | 59.61  | 487.813 | 14.144 | 3.4476 | 3933.7 | 4.4537 | 3.7974 | 0.23  | 562.10 | 24.712 | Koningsvaren        |
| Rubus species-s2                 | 3  |      |      |      |       |      |      | 20.47 | 588.969 | 21.514 | 78.470 | 157.90 | 73.201 | 42.33  | 831.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 | Braam (G)           |
| Viburnum opulus-s2               | 2a | 6    | 5    | 3    | X     | 7    | 6    | 19.57 | 7563.27 | 22.363 | 62.690 | 126.53 | 69.103 | 73.57  | 298.092 | 9.9383 | 32.283 | 2888.8 | 5.0791 | 4.6208 | 0.20  | 432.85 | 25.054 | Gelderse roos       |
| Gemiddelde indicatie             |    | 4.6  | 5.3  | 3.0  | 7.0   | 6.1  | 6.4  | 20.0  | 813.7   | 29.1   | 69.5   | 135.6  | 73.0   | 70.6   | 107.5   | 10.8   | 24.5   | 2943.1 | 4.8    | 4.4    | 0.2   | 544.5  | 22.3   |                     |
| Standaarddeviatie                |    | 1.2  | 0.4  | 0.8  | 1.4   | 1.2  | 1.0  | 1.7   | 1236.6  | 34.4   | 27.5   | 33.0   | 29.8   | 30.8   | 124.0   | 1.8    | 11.1   | 1326.5 | 0.5    | 0.6    | 0.0   | 228.3  | 10.3   |                     |
| Mediaan waarde                   |    | 4.0  | 5.0  | 3.0  | 7.0   | 6.5  | 7.0  | 19.9  | 431.7   | 20.7   | 76.6   | 136.5  | 79.5   | 66.2   | 75.8    | 10.5   | 25.5   | 2397.7 | 4.9    | 4.3    | 0.2   | 498.5  | 20.4   |                     |
| Som                              |    | 87.0 | 63.0 | 57.0 | 105.0 | 61.0 | 89.0 | 400.8 | *****   | 582.5  | 1390.5 | 2712.8 | 1459.1 | 4141.3 | 0.2149  | 215.4  | 490.3  | *****  | 96.9   | 88.4   | 4.2   | *****  | 445.9  |                     |
| Aantal observaties (n)           |    | 19.0 | 12.0 | 19.0 | 15.0  | 10.0 | 14.0 | 20.0  | 20.0    | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0    | 20.0   | 20.0   | 20.0   | 20.0   | 20.0   | 20.0  | 20.0   | 20.0   |                     |

#### Ellenberg:

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH (Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

#### Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 3

Objectnaam : Geuldert 3 (15)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/05/30  
X-coördinaat (km) : 192.559000  
Y-coördinaat (km) : 416.813000  
Bloknummer : 46-23-43-58  
Latitude : 51.738770  
Longitude : 5.930982  
Lengte proefvlak (m) : 5.00  
Breedte proefvlak (m) : 2.00  
Opp. proefvlak (m²) : 10.00  
Expositie : Zuidoost  
Hellingshoek (graden) : 10  
Altitude : 63  
Bedekking boomlaag (%) : 95  
Boom c2 : 60  
Bedekking struiklaag (%) : 30  
Bedekking kruidlaag (%) : 75  
Bedekking moslaag (%) : 1  
Bedekking strooisellaag (%) : 25  
Hoogte (hoge) boomlaag (m) : 30  
Hoogte lage boomlaag (m) : 8  
Hoogte (hoge) struiklaag (m) : 1.0  
Gem. hoogte (hoge) kruidl (cm) : 20  
Maximale hoogte kruidlaag (cm) : 130  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadraat (J/N) : J  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : vochtig loofbos  
Selectiedoel landelijk : H91E0\_C  
IPI : Bronbos  
Relief : laagte  
Waterdiepte : 0 - 1 dm  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296927  
Aantal soorten : 20  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 215  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 43-1 Zomereik met Goudveil en Koningsvaren  
Bodem : dikke humeuze strooisellaag bijna volledig bedekkend  
Opmerking : Kwel

#### Associa analysis

Syntaxon Index Norm.Lh. Incompl. Weirnd.

| 43AA04  | 37.0 | -0.3 | 0.2 | -0.6 | Carici remotae-Fraxinetum                      |
|---------|------|------|-----|------|------------------------------------------------|
| 43AA05  | 45.8 | 0.0  | 0.3 | -0.2 | Pruno-Fraxinetum                               |
| 07AA02A | 51.0 | 1.6  | 0.0 | 2.3  | Pellio epiphyllae-Chrysosplenietum inops       |
| 39AA02B | 51.1 | 0.2  | 0.3 | 0.1  | Carici elongatae-Alnetum cardaminetosum amarae |
| 43AB01F | 52.8 | 0.6  | 0.4 | 0.7  | Stellario-Carpinetum oxalidetosum              |
| 36AA01  | 54.6 | 0.6  | 0.4 | 0.7  | Salicetum auritae                              |
| 43AB01C | 54.9 | 0.3  | 0.4 | 0.3  | Stellario-Carpinetum typicum                   |
| 43AB01E | 55.9 | 0.6  | 0.7 | 0.5  | Stellario-Carpinetum dryopteridetosum          |
| 43AA01B | 56.0 | 0.6  | 0.4 | 0.7  | Violo odoratae-Ulmetum inops                   |

Classificatie 2015: 07AA01 - Philonotido fontanae-Montietum



|                                  | L     | T    | C    | V     | PH   | N    | W_C/N | W_CA   | W_CL    | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG   | W_NH4   | W_NO3  | NTO    | W_PHH  | W_PHK  | W_PO4  | W_PTO | W_VOC  |        |                      |
|----------------------------------|-------|------|------|-------|------|------|-------|--------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-------|--------|--------|----------------------|
| Acer pseudoplatanus-kl           | +     | 4    | X    | 4     | 6    | X    | 7     | 20.09  | 8207.39 | 17.480 | 90.742 | 158.84 | 103.69 | 49.07  | 142.057 | 9.9889 | 25.736 | 1790.9 | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn       |
| Acer pseudoplatanus-sl           | r     | 4    | X    | 4     | 6    | X    | 7     | 20.09  | 8207.39 | 17.480 | 90.742 | 158.84 | 103.69 | 49.07  | 142.057 | 9.9889 | 25.736 | 1790.9 | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn       |
| Alnus glutinosa-bl               | +     | 5    | 5    | 3     | 9=   | 6    | X     | 19.30  | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.01  | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els           |
| Arum maculatum-kl                | +     | 3    | 6    | 2     | 7    | 7    | 8     | 19.48  | 9459.99 | 18.729 | 95.256 | 146.56 | 100.94 | 70.33  | 575.877 | 8.3842 | 42.383 | 2078.4 | 5.2717 | 5.2445 | 0.17  | 471.65 | 20.354 | Gevlekte aronskelk   |
| Cardamine pratensis-kl           | +     | 4    | X    | X     | 6    | X    | X     | 13.93  | 55955.4 | 241.03 | -2.720 | 48.890 | 17.663 | 256.3  | 9317.47 | 7.2020 | 7.0958 | 6143.4 | 5.8171 | 5.1620 | 0.58  | 815.90 | 44.763 | Pinksterbloem        |
| Carex acutiformis-kl             | +     | 7    | X    | 3     | 9*   | 7    | 5     | 16.84  | 65260.5 | 177.85 | -2.684 | 49.780 | 15.513 | 155.0  | 3595.26 | 13.512 | 13.186 | 7261.8 | 5.3648 | 4.6898 | 0.30  | 1456.7 | 49.668 | Moeraszegge          |
| Carex remota-kl                  | 2a    | 3    | 5    | 3     | 8    | X    | X     | 19.69  | 2693.87 | 23.931 | 52.454 | 118.80 | 52.693 | 82.76  | 0102.31 | 11.319 | 24.062 | 3705.0 | 4.9228 | 4.4114 | 0.19  | 579.32 | 27.925 | IJle zegge           |
| Chrysosplenium oppositifolium-kl | 3     | 6    | 5    | 2     | 9=   | 5    | 5     | 18.73  | 31393.4 | 26.925 | 49.480 | 107.33 | 47.685 | 107.6  | 9171.48 | 10.140 | 38.891 | 4334.1 | 5.2114 | 4.8251 | 0.16  | 586.53 | 35.657 | Paarbladig goudveil  |
| Corylus avellana-b3              | 3     | 6    | 5    | 3     | 5    | X    | X     | 21.24  | 2301.67 | 18.335 | 81.884 | 149.76 | 85.752 | 55.03  | 451.636 | 10.882 | 25.337 | 2397.6 | 4.6663 | 4.1847 | 0.20  | 471.35 | 19.335 | Hazelaar             |
| Corylus avellana-sl              | 2b    | 6    | 5    | 3     | X    | 5    | X     | 21.24  | 2301.67 | 18.335 | 81.884 | 149.76 | 85.752 | 55.03  | 451.636 | 10.882 | 25.337 | 2397.6 | 4.6663 | 4.1847 | 0.20  | 471.35 | 19.335 | Hazelaar             |
| Dryopteris dilatata-kl           | +     | 4    | X    | 3     | 6    | X    | 7     | 23.22  | 862.917 | 18.227 | 97.437 | 184.66 | 69.335 | 32.29  | 323.206 | 12.476 | 6.9128 | 2351.4 | 3.8350 | 3.2829 | 0.20  | 539.10 | 8.8422 | Brede stekelvaren    |
| Equisetum telmateia-kl           | +     | 5    | 6    | 2     | 8    | 8    | 5     | 18.24  | 43329.3 | 30.645 | 44.352 | 101.14 | 42.400 | 131.3  | 7237.62 | 9.9450 | 34.598 | 4476.3 | 5.3911 | 4.9683 | 0.18  | 593.90 | 38.927 | Reuzenpaardenstaart  |
| Galeopsis tetrahit-kl            | r     | 7    | X    | 3     | 5    | X    | 6     | 19.49  | 2222.30 | 21.110 | 68.889 | 143.55 | 79.186 | 53.53  | 142.914 | 5.6594 | 17.979 | 2423.4 | 4.7212 | 4.1563 | 0.41  | 514.35 | 16.316 | Gewone hennepnetel   |
| Geranium robertianum-kl          | r     | 5    | X    | 3     | X    | X    | 7     | 18.38  | 5466.08 | 20.577 | 77.321 | 136.82 | 102.80 | 70.34  | 675.820 | 7.9945 | 32.433 | 1819.1 | 5.4396 | 5.4575 | 0.25  | 332.66 | 20.334 | Robertskruid         |
| Lysimachia nemorum-kl            | 2a    | 2    | 5    | 2     | 7    | 7    | 7     | 19.77  | 5788.82 | 21.978 | 67.068 | 126.28 | 68.836 | 84.04  | 3105.30 | 9.3674 | 29.158 | 3133.4 | 5.0351 | 4.7979 | 0.18  | 506.81 | 29.020 | Boswederik           |
| Osmunda regalis-kl               | 1 2a  | 5    | 6    | 2     | 8    | 4    | 5     | 21.42  | 8346.15 | 25.185 | 27.599 | 96.072 | 5.9496 | 59.61  | 487.813 | 14.144 | 3.4476 | 3933.7 | 4.4537 | 3.7974 | 0.23  | 562.10 | 24.712 | Koningsvaren         |
| Poa trivialis-kl                 | +     | 6    | X    | 3     | 7    | X    | 7     | 12.90  | 62500.6 | 260.99 | 25.499 | 80.612 | 54.493 | 217.3  | 4155.47 | 5.9193 | 12.209 | 4300.8 | 6.0988 | 5.4713 | 1.16  | 585.49 | 33.465 | Ruw beemdgras        |
| Quercus robur-bl                 | 5     | 7    | 6    | 6     | X    | X    | X     | 22.80  | 452.813 | 14.939 | 95.706 | 182.86 | 80.269 | 30.29  | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik             |
| Quercus robur-kl                 | +     | 7    | 6    | 6     | X    | X    | X     | 22.80  | 452.813 | 14.939 | 95.706 | 182.86 | 80.269 | 30.29  | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik             |
| Ranunculus repens-kl             | 2a    | 6    | X    | X     | 7*   | X    | X     | 12.63  | 13252.6 | 143.42 | 15.919 | 68.270 | 38.758 | 221.4  | 5167.04 | 5.6536 | 7.8655 | 4793.2 | 6.0843 | 5.3996 | 1.26  | 606.15 | 36.345 | Kruipende boterbloem |
| Rubus species-sl                 | +     |      |      |       |      |      |       | 20.47  | 588.969 | 21.514 | 78.470 | 157.90 | 73.201 | 42.33  | 831.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 | Braam (G)            |
| Sorbus aucuparia-b3              | 2a    | 6    | X    | X     | X    | 4    | X     | 23.37  | 762.910 | 16.696 | 97.651 | 185.63 | 75.249 | 30.73  | 620.999 | 12.851 | 4.4429 | 2124.8 | 3.8335 | 3.3160 | 0.21  | 458.48 | 9.5259 | Wilde lijsterbes     |
| Sorbus aucuparia-kl              | r     | 6    | X    | X     | X    | 4    | X     | 23.37  | 762.910 | 16.696 | 97.651 | 185.63 | 75.249 | 30.73  | 620.999 | 12.851 | 4.4429 | 2124.8 | 3.8335 | 3.3160 | 0.21  | 458.48 | 9.5259 | Wilde lijsterbes     |
| Sorbus aucuparia-sl              | 2a    | 6    | X    | X     | X    | 4    | X     | 23.37  | 762.910 | 16.696 | 97.651 | 185.63 | 75.249 | 30.73  | 620.999 | 12.851 | 4.4429 | 2124.8 | 3.8335 | 3.3160 | 0.21  | 458.48 | 9.5259 | Wilde lijsterbes     |
| Urtica dioica-kl                 | +     | X    | X    | X     | 6    | 7    | 8     | 16.41  | 2611.64 | 29.343 | 53.534 | 115.39 | 84.419 | 90.70  | 490.316 | 7.2270 | 26.465 | 2163.0 | 5.8642 | 5.5389 | 0.58  | 359.41 | 23.335 | Grote brandnetel     |
| Gemiddelde indicatie             | 5.2   | 5.5  | 3.2  | 7.1   | 5.6  | 6.5  | 19.6  | 1099.0 | 50.5    | 64.6   | 133.0  | 66.5   | 84.8   | 109.3  | 10.3    | 18.1   | 3093.0 | 4.8    | 4.4    | 0.3    | 541.3 | 22.7   |        |                      |
| Standaarddeviatie                | 1.4   | 0.5  | 1.2  | 1.2   | 1.4  | 1.1  | 3.1   | 1621.2 | 70.5    | 32.0   | 42.0   | 27.1   | 62.9   | 124.0  | 2.5     | 12.2   | 1451.3 | 0.7    | 0.8    | 0.3    | 219.6 | 11.7   |        |                      |
| Mediaan waarde                   | 6.0   | 5.0  | 3.0  | 7.0   | 5.0  | 7.0  | 19.8  | 346.2  | 21.1    | 77.3   | 143.6  | 75.2   | 59.6   | 75.8   | 10.9    | 18.0   | 2397.7 | 4.8    | 4.3    | 0.2    | 506.8 | 20.3   |        |                      |
| Som                              | 120.0 | 60.0 | 57.0 | 114.0 | 73.0 | 84.0 | 489.4 | *****  | 1262.8  | 1614.8 | 3326.0 | 1661.8 | 2119.3 | 2731.6 | 257.1   | 452.2  | *****  | 121.1  | 108.8  | 8.4    | ***** | 566.7  |        |                      |
| Aantal observaties (n)           | 23.0  | 11.0 | 18.0 | 16.0  | 13.0 | 13.0 | 25.0  | 25.0   | 25.0    | 25.0   | 25.0   | 25.0   | 25.0   | 25.0   | 25.0    | 25.0   | 25.0   | 5.0    | 25.0   | 25.0   | 25.0  | 25.0   |        |                      |

Ellenberg:

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH(Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 4

Objectnaam : Geuldert 4 (19)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/05/30  
X-coördinaat (km) : 192.574000  
Y-coördinaat (km) : 416.775000  
Bloknummer : 46-23-43-57  
Latitude : 51.738430  
Longitude : 5.931191  
Lengte proefvlak (m) : 10.00  
Breedte proefvlak (m) : 10.00  
Opp. proefvlak (m²) : 100.00  
Expositie : Geen expositie  
Hellingshoek (graden) : 0  
Altitude : 60  
Bedekking boomlaag (%) : 80  
Boom c2 : 5  
Bedekking kruidlaag (%) : 55  
Bedekking moslaag (%) : 1  
Bedekking strooisellaag (%) : 100  
Hoogte (hoge) boomlaag (m) : 20  
Hoogte lage boomlaag (m) : 10  
Gem. hoogte (hoge) kruidl (cm) : 150  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadraat (J/N) : J  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : vochtig loofbos  
Selectiedoel landelijk : H91D0  
IPI : Berkenbroekbos  
Relief : vlak  
Waterdiepte : 0 dm (droogstaand)  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296931  
Aantal soorten : 14  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 219  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 40-2 Berkenbos met Adelaarsvaren  
Bodem : onverweerde strooisel  
Opmerkingen : iets hoger gelegen naast bronbeek

#### Associa analysis

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirdn. |                                                    |
|----------|-------|----------|----------|---------|----------------------------------------------------|
| 18RG01   | 29.5  | 0.1      | 0.3      | 0.1     | RG Pteridium aquilinum-[Melampyro-Holcetea mollis] |
| 40AA02A  | 30.1  | -0.3     | 0.1      | -0.5    | Carici curtae-Betuletum peucedanetosum             |
| 40AA02B  | 30.6  | 0.2      | 0.3      | 0.1     | Carici curtae-Betuletum typicum                    |
| 35AA02   | 31.1  | 0.2      | 0.1      | 0.2     | Rubetum silvatici                                  |
| 42AA02D  | 31.8  | 0.1      | 0.3      | 0.0     | Fago-Quercetum molinietosum                        |
| 42RG02   | 32.6  | 0.2      | 0.2      | 0.2     | RG Rubus fruticosus-[Quercion roboris]             |
| 42AA02C  | 33.3  | 0.0      | 0.3      | -0.1    | Fago-Quercetum convallarietosum                    |
| 40RG02   | 33.4  | 0.3      | 0.0      | 0.5     | RG Molinia caerulea-[Betulion pubescentis]*        |
| 42AA02B  | 33.7  | 0.6      | 0.1      | 0.8     | Fago-Quercetum pteridietosum                       |
| 41RG03   | 34.8  | 0.8      | 0.2      | 1.1     | RG Pteridium aquilinum-[Dicrano-Pinion]            |

\* Classificatie 2015: 40RG02 - RG Molinia caerulea-[Betulion pubescentis]



|                         | L | T    | C    | V    | PH   | N    | W_C_N | W_CA  | W_CL    | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG   | W_NH4   | W_NO3  | W_NTO  | W_PHH  | W_PHK  | W_PO4  | W_PTO | W_VOC  |        |                  |
|-------------------------|---|------|------|------|------|------|-------|-------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-------|--------|--------|------------------|
| Alnus glutinosa-b3      | + | 5    | 5    | 3    | 9=   | 6    | X     | 19.30 | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.01  | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els       |
| Betula pendula-b1       | 3 | 7    | X    | X    | X    | X    | X     | 25.16 | 827.339 | 14.921 | 108.29 | 198.61 | 73.119 | 23.18  | 014.094 | 11.910 | 0.9411 | 1762.1 | 3.6835 | 2.8949 | 0.20  | 349.26 | 7.0955 | Ruwe berk        |
| Betula pubescens-b1     | 3 | 7    | X    | X    | X    | 3    | 3     | 23.07 | 5137.94 | 18.336 | 63.695 | 144.28 | 33.529 | 40.42  | 139.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk      |
| Betula pubescens-b3     | + | 7    | X    | X    | 8    | 3    | 3     | 23.07 | 5137.94 | 18.336 | 63.695 | 144.28 | 33.529 | 40.42  | 139.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk      |
| Carex acutiformis-kl    | + | 7    | X    | 3    | 9*   | 7    | 5     | 16.84 | 65260.5 | 177.85 | -2.684 | 49.780 | 15.513 | 155.0  | 3595.26 | 13.512 | 13.186 | 7261.8 | 5.3648 | 4.6898 | 0.30  | 1456.7 | 49.668 | Moeraszegge      |
| Ilex aquifolium-s2      | x | 4    | 5    | 2    | 5    | 4    | 5     | 24.23 | 765.298 | 15.740 | 99.159 | 184.09 | 90.827 | 30.39  | 122.694 | 13.673 | 6.9632 | 2142.8 | 3.7010 | 3.3192 | 0.19  | 522.00 | 11.720 | Hulst            |
| Molinia caerulea-kl     | + | 7    | X    | 3    | 7    | X    | 1     | 24.73 | 6118.43 | 10.827 | 40.256 | 98.185 | 4.1497 | 33.13  | 029.735 | 10.893 | 0.2248 | 2515.9 | 4.0941 | 3.2907 | 0.20  | 292.96 | 15.677 | Pijpenstrootje   |
| Phragmites australis-kl | + | 7    | 5    | X    | 10   | 7    | 7     | 15.80 | 03204.6 | 891.67 | -17.28 | 35.491 | -1.566 | 181.9  | 4450.78 | 10.241 | 11.059 | 6606.6 | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 | Riet             |
| Pteridium aquilinum-kl  | 4 | 6    | 5    | 3    | 5*   | 3    | 3     | 24.55 | 417.616 | 15.347 | 116.00 | 199.17 | 82.983 | 23.74  | 213.564 | 16.580 | 6.4898 | 2267.8 | 3.3104 | 2.9380 | 0.22  | 520.22 | 9.8230 | Adelaarsvaren    |
| Quercus robur-kl        | r | 7    | 6    | 6    | X    | X    | X     | 22.80 | 452.813 | 14.939 | 95.706 | 182.86 | 80.269 | 30.29  | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik         |
| Rhamnus frangula-s2     | r | 6    | 6    | 5    | 8*   | 4    | X     | 23.65 | 578.136 | 15.766 | 85.647 | 175.51 | 51.477 | 31.35  | 623.763 | 12.067 | 1.6683 | 2366.9 | 3.8944 | 3.2635 | 0.22  | 452.44 | 12.162 | Sporkehout       |
| Rubus species-kl        | 1 |      |      |      |      |      |       | 20.47 | 588.969 | 21.514 | 78.470 | 157.90 | 73.201 | 42.33  | 831.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 | Braam (G)        |
| Sorbus aucuparia-b3     | + | 6    | X    | X    | X    | 4    | X     | 23.37 | 762.910 | 16.696 | 97.651 | 185.63 | 75.249 | 30.73  | 620.999 | 12.851 | 4.4429 | 2124.8 | 3.8335 | 3.3160 | 0.21  | 458.48 | 9.5259 | Wilde lijsterbes |
| Sorbus aucuparia-s2     | r | 6    | X    | X    | X    | 4    | X     | 23.37 | 762.910 | 16.696 | 97.651 | 185.63 | 75.249 | 30.73  | 620.999 | 12.851 | 4.4429 | 2124.8 | 3.8335 | 3.3160 | 0.21  | 458.48 | 9.5259 | Wilde lijsterbes |
| Taxus baccata-s2        | + | 4    | 5    | 2    | 5*   | 7    | X     | 22.29 | 2105.35 | 15.929 | 98.061 | 173.43 | 108.28 | 36.76  | 431.747 | 11.447 | 18.051 | 1769.1 | 4.2099 | 3.8239 | 0.20  | 466.96 | 11.153 | Taxus            |
| Gemiddelde indicatie    |   | 6.1  | 5.3  | 3.4  | 7.4  | 4.7  | 3.9   | 22.2  | 676.8   | 86.3   | 70.8   | 147.9  | 55.9   | 54.2   | 101.0   | 12.5   | 7.2    | 2934.  | 4.2    | 3.7    | 0.3   | 538.7  | 17.5   |                  |
| Standaarddeviatie       |   | 1.1  | 0.5  | 1.3  | 1.7  | 1.6  | 1.8   | 2.7   | 1453.7  | 219.0  | 38.9   | 50.8   | 32.1   | 47.1   | 171.2   | 1.4    | 6.7    | 1657.5 | 0.7    | 0.7    | 0.1   | 274.0  | 12.5   |                  |
| Mediaan waarde          |   | 6.5  | 5.0  | 3.0  | 8.0  | 4.0  | 3.0   | 23.1  | 89.0    | 16.7   | 85.6   | 173.4  | 73.1   | 33.1   | 29.7    | 12.3   | 4.4    | 2278.1 | 4.1    | 3.3    | 0.2   | 458.5  | 12.2   |                  |
| Som                     |   | 86.0 | 37.0 | 27.0 | 74.0 | 52.0 | 27.0  | 332.8 | *****   | 1294.3 | 1061.6 | 2219.0 | 838.5  | 813.51 | 515.5   | 187.2  | 108.0  | *****  | 63.6   | 54.8   | 3.8   | 8080.1 | 262.2  |                  |
| Aantal observaties (n)  |   | 14.0 | 7.0  | 8.0  | 10.0 | 11.0 | 7.0   | 15.0  | 15.0    | 15.0   | 15.0   | 15.0   | 15.0   | 15.0   | 15.0    | 15.0   | 15.0   | 15.0   | 15.0   | 15.0   | 15.0  | 15.0   | 15.0   |                  |

L (Licht) - 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht) - 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH (Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 5

Objectnaam : Geuldert 5 (20)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/05/30  
X-coördinaat (km) : 192.598000  
Y-coördinaat (km) : 416.732000  
Bloknummer : 46-23-43-67  
Lengte proefvlak (m) : 10.00  
Breedte proefvlak (m) : 10.00  
Opp. proefvlak (m²) : 100.00  
Expositie : Geen expositie  
Hellingshoek (graden) : 0  
Altitude : 102  
Bedekking boomlaag (%) : 85  
Boom\_c2 : 30  
Bedekking struiklaag (%) : 3  
Bedekking kruidlaag (%) : 45  
Bedekking moslaag (%) : 10  
Bedekking strooisellaag (%) : 100  
Hoogte (hoge) boomlaag (m) : 27  
Hoogte lage boomlaag (m) : 10  
Hoogte (hoge) struiklaag (m) : 2.0  
Gem. hoogte (hoge) kruidl (cm) : 50  
Maximale hoogte kruidlaag (cm) : 110  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadraat (J/N) : J  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : vochtig loofbos  
Selectiedoel landelijk : H91D0  
IPI : Berkenbroekbos  
Relief : laagte  
Waterdiepte : 0 - 1 dm  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296932  
Aantal soorten : 28  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 220  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 40-1 Eikenberkenbos met Zeggen en Pijpenstrootje  
Bodem : Vele kuilen 2-4m doorsnee, strooisellaag nagenoeg 100%  
Opmerking : W: water-wilgenstruweel, O: IJle zegge-rietkraag-grasland; drooggevalen oever/rand (Veenmos ea niet aangetroffen)

#### Associa analysis

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirdn. |                                                   |
|----------|-------|----------|----------|---------|---------------------------------------------------|
| 40AA02A  | 44.4  | 0.4      | 0.4      | 0.4     | Carici curtae-Betuletum peucedanetosum            |
| 39AA02D  | 48.4  | 0.5      | 0.3      | 0.6     | Carici elongatae-Alnetum rubetosum idaei          |
| 39RG02   | 49.6  | 0.6      | 0.0      | 1.0     | RG Rubus fruticosus-[Alnion glutinosae]           |
| 39AA02E  | 49.8  | 0.5      | 0.2      | 0.7     | Carici elongatae-Alnetum caricetosum curtae       |
| 36AA01   | 49.9  | 0.7      | 0.1      | 0.9     | Salicetum auritae                                 |
| 36AA02A  | 50.8  | 1.1      | 0.5      | 1.4     | Salicetum cinereae calamagrostietosum canescentis |
| 36AA02B  | 51.1  | 1.0      | 0.6      | 1.2     | Salicetum cinereae typicum                        |
| 39RG01   | 54.5  | 1.3      | -0.1     | 2.0     | RG Calamagrostis canescens-[Alnion glutinosae]    |
| 40RG03   | 54.5  | 1.4      | 1.1      | 1.5     | RG Rubus fruticosus-[Betulion pubescentis]        |
| 39AA02C  | 54.8  | 0.7      | 0.4      | 0.8     | Carici elongatae-Alnetum ribetosum nigri          |

Classificatie 2015: 39AA02A - Carici elongatae-Alnetum typicum



|                             |    | L     | T     | C    | V     | PH   | N    | W_C_N | W_CA    | W_CL   | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG    | W_NH4  | W_NO3  | NTO    | W_PHH  | W_PHK  | W_PO4 | W_PTO  | W_VOC  |                    |
|-----------------------------|----|-------|-------|------|-------|------|------|-------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------------------|
| Acer species-kl             | r  | 5     | 6     | 6    | 6     | 7    | 7    |       |         |        |        |        |        |        |         |        |        |        |        |        |       |        |        |                    |
| Alnus glutinosa-b3          | x  | 5     | 5     | 3    | 9=    | 6    | X    | 19.30 | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.01  | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els         |
| Alnus glutinosa-s1          | x  | 5     | 5     | 3    | 9=    | 6    | X    | 19.30 | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.01  | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els         |
| Betula pendula-b1           | 3  | 7     | X     | X    | X     | X    | X    | 25.16 | 827.339 | 14.921 | 108.29 | 198.61 | 73.119 | 23.18  | 014.094 | 11.910 | 0.9411 | 1762.1 | 3.6835 | 2.8949 | 0.20  | 349.26 | 7.0955 | Ruwe berk          |
| Calamagrostis canescens-kl  | 2b | 6     | 6     | 5    | 9*    | 6    | 5    | 18.04 | 21918.5 | 32.025 | -3.868 | 46.609 | 10.361 | 108.6  | 9393.51 | 12.828 | 14.795 | 5894.5 | 5.1133 | 4.4229 | 0.23  | 928.15 | 41.859 | Hennegras          |
| Cardamine flexuosa-kl       | r  | 6     | 5     | 2    | 8     | 4    | 5    | 17.82 | 61180.9 | 29.410 | 41.118 | 100.55 | 51.569 | 111.1  | 1169.13 | 10.220 | 23.157 | 4096.4 | 5.3965 | 4.8824 | 0.28  | 555.70 | 32.804 | Bosveldkers        |
| Carex acutiformis-kl        | 1  | 7     | X     | 3    | 9*    | 7    | 5    | 16.84 | 65260.5 | 177.85 | -2.684 | 49.780 | 15.513 | 155.0  | 3595.26 | 13.512 | 13.186 | 7261.8 | 5.3648 | 4.6898 | 0.30  | 1456.7 | 49.668 | Moeraszegge        |
| Carex elata-kl              | 2b | 8     | X     | 2    | 10*   | X    | 5    | 17.63 | 12826.4 | 120.42 | -21.32 | 16.433 | -1.762 | 137.6  | 6528.21 | 13.609 | 17.632 | 6736.4 | 5.2328 | 4.5104 | 0.19  | 1052.6 | 44.845 | Stijve zegge       |
| Carex paniculata-kl         | +  | 7     | X     | 3    | 9=    | 6    | 4    | 17.22 | 13241.7 | 326.15 | -12.37 | 40.664 | 5.6652 | 157.2  | 4562.27 | 13.212 | 20.005 | 6715.9 | 5.3113 | 4.5998 | 0.24  | 1028.8 | 43.307 | Pluimzegge         |
| Carex remota-kl             | 2a | 3     | 5     | 3    | 8     | X    | X    | 19.69 | 2693.87 | 23.931 | 52.454 | 118.80 | 52.693 | 82.76  | 0102.31 | 11.319 | 24.062 | 3705.0 | 4.9228 | 4.4114 | 0.19  | 579.32 | 27.925 | IJle zegge         |
| Dryopteris carthusiana-kl   | 1  | 5     | X     | 3    | X     | 4    | 3    | 23.43 | 789.967 | 19.132 | 90.810 | 179.46 | 52.018 | 35.20  | 828.456 | 12.910 | 5.8650 | 2641.9 | 3.9459 | 3.3617 | 0.19  | 582.94 | 8.6746 | Smalle stekelvaren |
| Dryopteris dilatata-kl      | +  | 4     | X     | 3    | 6     | X    | 7    | 23.22 | 862.917 | 18.227 | 97.437 | 184.66 | 69.335 | 32.29  | 323.206 | 12.476 | 6.9128 | 2351.4 | 3.8350 | 3.2829 | 0.20  | 539.10 | 8.8422 | Brede stekelvaren  |
| Hedera helix-kl             | x  | 4     | 5     | 2    | 5     | X    | X    | 21.31 | 1232.21 | 17.917 | 85.701 | 153.74 | 99.665 | 50.74  | 445.409 | 11.268 | 26.404 | 2298.3 | 4.5665 | 4.1334 | 0.21  | 475.30 | 18.621 | Klimop             |
| Holcus lanatus-kl           | +  | 7     | 6     | 3    | 6     | X    | 4    | 14.50 | 91362.7 | 33.118 | 26.401 | 84.767 | 36.368 | 107.1  | 6108.17 | 6.1065 | 3.7371 | 3215.5 | 5.6041 | 4.9109 | 1.02  | 329.78 | 31.012 | Gestreeppe witbol  |
| Humulus lupulus-kl          | r  | 7     | 6     | 3    | 8=    | 6    | 8    | 19.30 | 1523.57 | 23.721 | 58.747 | 125.87 | 76.073 | 76.13  | 592.208 | 10.697 | 27.463 | 3083.8 | 5.0633 | 4.5557 | 0.26  | 502.51 | 25.297 | Hop                |
| Ilex aquifolium-kl          | x  | 4     | 5     | 2    | 5     | 4    | 5    | 24.23 | 765.298 | 15.740 | 99.159 | 184.09 | 90.827 | 30.39  | 122.694 | 13.673 | 6.9632 | 2142.8 | 3.7010 | 3.3192 | 0.19  | 522.00 | 11.720 | Hulst              |
| Iris pseudacorus-kl         | +  | 7     | 6     | 3    | 9=    | X    | 7    | 16.58 | 83510.0 | 273.00 | -12.99 | 37.230 | 9.7160 | 211.5  | 9433.43 | 11.946 | 26.642 | 7746.4 | 5.4973 | 4.7723 | 0.26  | 1019.3 | 50.205 | Gele lis           |
| Juncus effusus-kl           | +  | 8     | 5     | 3    | 7     | 3    | 4    | 17.14 | 51394.0 | 31.329 | 2.0007 | 45.081 | 9.1896 | 115.6  | 5154.79 | 9.8592 | 4.0727 | 5366.6 | 5.1215 | 4.3775 | 0.38  | 650.82 | 38.562 | Pitrus             |
| Lysimachia vulgaris-kl      | +  | 6     | X     | X    | 8*    | X    | X    | 17.37 | 61745.1 | 29.592 | -8.932 | 38.448 | 6.0009 | 106.4  | 9262.24 | 11.118 | 7.7044 | 5864.2 | 5.1669 | 4.4684 | 0.25  | 689.45 | 42.910 | Grote wederik      |
| Molinia caerulea-kl         | 2b | 7     | X     | 3    | 7     | X    | 1    | 24.73 | 6118.43 | 10.827 | 40.256 | 98.185 | 4.1497 | 33.13  | 029.735 | 10.893 | 0.2248 | 2515.9 | 4.0941 | 3.2907 | 0.20  | 292.96 | 15.677 | Pijpenstrootje     |
| Osmunda regalis-kl          | r  | 5     | 6     | 2    | 8     | 4    | 5    | 21.42 | 8346.15 | 25.185 | 27.599 | 96.072 | 5.9496 | 59.61  | 487.813 | 14.144 | 3.4476 | 3933.7 | 4.4537 | 3.7974 | 0.23  | 562.10 | 24.712 | Koningsvaren       |
| Phragmites australis-kl     | +  | 7     | 5     | X    | 10    | 7    | 7    | 15.80 | 03204.6 | 891.67 | -17.28 | 35.491 | -1.566 | 181.9  | 4450.78 | 10.241 | 11.059 | 6606.6 | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 | Riet               |
| Poa trivialis-kl            | +  | 6     | X     | 3    | 7     | X    | 7    | 12.90 | 62500.6 | 260.99 | 25.499 | 80.612 | 54.493 | 217.3  | 4155.47 | 5.9193 | 12.209 | 4300.8 | 6.0988 | 5.4713 | 1.16  | 585.49 | 33.465 | Ruw beemdgras      |
| Quercus robur-b1            | 3  | 7     | 6     | 6    | X     | X    | X    | 22.80 | 452.813 | 14.939 | 95.706 | 182.86 | 80.269 | 30.29  | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik           |
| Quercus robur-b3            | +  | 7     | 6     | 6    | X     | X    | X    | 22.80 | 452.813 | 14.939 | 95.706 | 182.86 | 80.269 | 30.29  | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik           |
| Quercus robur-kl            | 1  | 7     | 6     | 6    | X     | X    | X    | 22.80 | 452.813 | 14.939 | 95.706 | 182.86 | 80.269 | 30.29  | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik           |
| Ranunculus acris-kl         | x  | 7     | X     | 6    | X     | X    | X    | 11.69 | 83832.0 | 26.722 | 15.987 | 69.415 | 37.594 | 192.9  | 2163.06 | 5.2827 | 4.9204 | 4343.5 | 6.2453 | 5.5356 | 1.49  | 481.39 | 37.250 | Scherpe boterbloem |
| Rhamnus frangula-kl         | r  | 6     | 6     | 5    | 8*    | 4    | X    | 23.65 | 578.136 | 15.766 | 85.647 | 175.51 | 51.477 | 31.35  | 623.763 | 12.067 | 1.6683 | 2366.9 | 3.8944 | 3.2635 | 0.22  | 452.44 | 12.162 | Sporkehout         |
| Rhamnus frangula-s1         | +  | 6     | 6     | 5    | 8*    | 4    | X    | 23.65 | 578.136 | 15.766 | 85.647 | 175.51 | 51.477 | 31.35  | 623.763 | 12.067 | 1.6683 | 2366.9 | 3.8944 | 3.2635 | 0.22  | 452.44 | 12.162 | Sporkehout         |
| Rubus species-kl            | +  |       |       |      |       |      |      | 20.47 | 588.969 | 21.514 | 78.470 | 157.90 | 73.201 | 42.33  | 831.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 | Braam (G)          |
| Salix cinerea s. cinerea-b3 | 3  |       |       |      |       |      |      |       |         |        |        |        |        |        |         |        |        |        |        |        |       |        |        | Grauwe wilg        |
| Salix cinerea s. cinerea-s1 | +  |       |       |      |       |      |      |       |         |        |        |        |        |        |         |        |        |        |        |        |       |        |        | Grauwe wilg        |
| Sorbus aucuparia-kl         | r  | 6     | X     | X    | X     | 4    | X    | 23.37 | 762.910 | 16.696 | 97.651 | 185.63 | 75.249 | 30.73  | 620.999 | 12.851 | 4.4429 | 2124.8 | 3.8335 | 3.3160 | 0.21  | 458.48 | 9.5259 | Wilde lijsterbes   |
| Gemiddelde indicatie        |    | 6.1   | 5.6   | 3.6  | 7.8   | 5.1  | 5.2  | 19.8  | 1202.2  | 85.9   | 46.7   | 114.5  | 44.5   | 87.3   | 163.6   | 11.4   | 11.2   | 3826.1 | 4.7    | 4.1    | 0.4   | 605.1  | 25.7   |                    |
| Standaarddeviatie           |    | 1.2   | 0.5   | 1.4  | 1.4   | 1.3  | 1.7  | 3.6   | 1418.0  | 171.4  | 42.8   | 58.6   | 30.8   | 59.6   | 179.4   | 2.2    | 9.1    | 1844.2 | 0.8    | 0.8    | 0.3   | 260.3  | 14.2   |                    |
| Mediaan waarde              |    | 6.0   | 6.0   | 3.0  | 8.0   | 5.0  | 5.0  | 19.5  | 608.7   | 24.6   | 40.7   | 104.1  | 51.5   | 79.4   | 97.3    | 11.9   | 7.3    | 3460.3 | 4.9    | 4.3    | 0.2   | 558.9  | 26.6   |                    |
| Som                         |    | 182.0 | 106.0 | 94.0 | 179.0 | 82.0 | 89.0 | 594.3 | *****   | 2575.9 | 1401.1 | 3435.9 | 1334.6 | 2619.1 | 4906.5  | 341.5  | 335.9  | *****  | 142.2  | 123.4  | 10.5  | *****  | 771.7  |                    |
| Aantal observaties (n)      |    | 30.0  | 19.0  | 26.0 | 23.0  | 16.0 | 17.0 | 30.0  | 30.0    | 30.0   | 30.0   | 30.0   | 30.0   | 30.0   | 30.0    | 30.0   | 30.0   | 30.0   | 30.0   | 30.0   | 30.0  | 30.0   | 30.0   |                    |

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH(Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, PO4 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 6

Objectnaam : Geuldert 6 (14)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/06/01  
X-coördinaat (km) : 192.455000  
Y-coördinaat (km) : 416.723000  
Bloknummer : 46-23-43-47  
Latitude : 51.737960  
Longitude : 5.929454  
Lengte proefvlak (m) : 3.00  
Breedte proefvlak (m) : 2.00  
Opp. proefvlak (m<sup>2</sup>) : 6.00  
Expositie : Geen expositie  
Hellingshoek (graden) : 0  
Altitude : 55  
Bedekking kruidlaag (%) : 95  
Cov. water : 100  
Gem. hoogte (hoge) kruidl (cm) : 220  
Water hgt : 20  
Mossen geïdentificeerd (J/N) : N  
Permanent Quadraat (J/N) : J  
Transect : Wel in transect, wel homogeen  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : open moeras  
Selectiedoel landelijk : H7210  
IPI : Riet- en biezeland  
Relief : laagte  
Waterdiepte : 1 - 2 dm  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296926  
Aantal soorten : 10  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 214  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 8-1 Oevervegetatie met Galigaan  
Bodem : in water, verticale oever 50 cm  
Opmerking : Aan open water

Associa analysis

Syntaxon Index Norm.Lh. Incompl. Weirtn.

|         |      |      |      |      |                                                      |
|---------|------|------|------|------|------------------------------------------------------|
| 08BD01  | 18.5 | 0.1  | -0.1 | 0.1  | Cladietum marisci                                    |
| 36AA02A | 29.2 | -0.1 | 0.8  | -0.5 | Salicetum cinereae calamagrostietosum canescentis    |
| 08BB04D | 29.5 | 0.4  | 0.3  | 0.4  | Typho-Phragmitetum thelypteridetosum                 |
| 08BD03  | 29.8 | 0.3  | 1.0  | 0.0  | Caricetum elatae                                     |
| 36AA02B | 30.2 | -0.1 | 0.8  | -0.4 | Salicetum cinereae typicum                           |
| 32RG01  | 31.0 | 0.5  | 1.0  | 0.3  | RG Eupatorium cannabinum-[Convolvulo-Filipenduletea] |
| 40AA02B | 31.6 | -0.1 | 0.3  | -0.3 | Carici curtae-Betuletum typicum                      |
| 36AA01  | 32.1 | -0.3 | 0.3  | -0.6 | Salicetum auritae                                    |
| 40AA02A | 32.7 | -0.3 | 0.2  | -0.6 | Carici curtae-Betuletum peucedanetosum               |
| 36RG02  | 32.8 | 0.0  | 0.5  | -0.3 | RG Myrica gale-[Salicion cinereae]*                  |

\* Classificatie 2015: 36RG02 - RG Myrica gale-[Salicion cinereae]



|                             | L | T    | C    | V    | PH   | N    | W_C_N | W_CA  | W_CL    | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG  | W_NH4   | W_NO3 | W_NTO   | W_PHH  | W_PHK  | W_PO4  | W_PTO | W_VOC  |        |               |
|-----------------------------|---|------|------|------|------|------|-------|-------|---------|--------|--------|--------|--------|-------|---------|-------|---------|--------|--------|--------|-------|--------|--------|---------------|
| Betula pubescens-kl         | x | 7    | X    | X    | 8    | 3    | 3     | 23.07 | 5137.94 | 18.336 | 63.695 | 144.28 | 33.529 | 40.42 | 139.132 | 12.32 | 21.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk   |
| Cladium mariscus-kl         | 4 | 9    | 6    | 3    | 10   | 9    | 3     | 16.95 | 93862.2 | 414.24 | -47.39 | -12.73 | -31.23 | 151.4 | 9765.52 | 12.13 | 35.4707 | 6705.4 | 5.3041 | 4.6060 | 0.19  | 1349.7 | 42.436 | Galigaan      |
| Lysimachia vulgaris-kl      | + | 6    | X    | X    | 8*   | X    | X     | 17.37 | 61745.1 | 29.592 | -8.932 | 38.448 | 6.0009 | 106.4 | 9262.24 | 11.11 | 87.7044 | 5864.2 | 5.1669 | 4.4684 | 0.25  | 689.45 | 42.910 | Grote wederik |
| Myrica gale-kl              | x | 8    | 6    | 2    | 9    | 3    | 3     | 21.15 | 5573.49 | 21.822 | -32.09 | 2.3885 | -18.52 | 65.64 | 0185.61 | 12.53 | 10.6511 | 4267.4 | 4.6516 | 3.8936 | 0.19  | 1061.5 | 26.593 | Wilde gagel   |
| Phragmites australis-kl     | 3 | 7    | 5    | X    | 10   | 7    | 7     | 15.80 | 03204.6 | 891.67 | -17.28 | 35.491 | -1.566 | 181.9 | 4450.78 | 10.24 | 111.059 | 6606.6 | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 | Riet          |
| Rhamnus frangula-kl         | x | 6    | 6    | 5    | 8*   | 4    | X     | 23.65 | 578.136 | 15.766 | 85.647 | 175.51 | 51.477 | 31.35 | 623.763 | 12.06 | 71.6683 | 2366.9 | 3.8944 | 3.2635 | 0.22  | 452.44 | 12.162 | Sporkehout    |
| Rubus fruticosus s.l.-kl    | + |      |      |      |      |      |       | 21.58 | 6151.25 | 18.209 | 80.015 | 160.44 | 70.234 | 42.78 | 032.519 | 11.88 | 37.1800 | 2417.3 | 4.2361 | 3.6897 | 0.27  | 389.59 | 15.360 | Gewone braam  |
| Salix cinerea s. cinerea-kl | x |      |      |      |      |      |       |       |         |        |        |        |        |       |         |       |         |        |        |        |       |        |        | Grauwe wilg   |
| Solanum dulcamara-kl        | 1 | 7    | 5    | X    | 8*   | X    | 8     | 17.07 | 11000.3 | 283.23 | 23.180 | 78.885 | 25.500 | 123.3 | 2246.35 | 12.23 | 239.815 | 3947.2 | 5.7258 | 5.2705 | 0.28  | 598.70 | 30.266 | Bitterzoet    |
| Thelypteris palustris-kl    | x | 5    | 6    | X    | 8    | 5    | 6     | 17.40 | 43542.7 | 284.09 | -15.79 | 38.560 | 3.2537 | 149.6 | 8662.31 | 12.80 | 616.685 | 6690.1 | 5.2859 | 4.5843 | 0.23  | 1109.3 | 41.717 | Moerasvaren   |
| Gemiddelde indicatie        |   | 6.9  | 5.7  | 3.3  | 8.6  | 5.2  | 5.0   | 19.3  | 1588.4  | 219.7  | 14.6   | 73.5   | 15.4   | 99.2  | 296.5   | 11.9  | 10.2    | 4601.9 | 5.0    | 4.3    | 0.3   | 752.5  | 30.0   |               |
| Standaarddeviatie           |   | 1.2  | 0.5  | 1.2  | 0.9  | 2.2  | 2.1   | 2.8   | 1470.2  | 278.0  | 47.5   | 66.2   | 30.9   | 52.8  | 259.0   | 0.7   | 11.5    | 1792.3 | 0.7    | 0.7    | 0.1   | 327.7  | 12.6   |               |
| Mediaan waarde              |   | 7.0  | 6.0  | 3.0  | 8.0  | 4.5  | 4.5   | 17.4  | 1000.4  | 29.6   | -8.9   | 38.6   | 6.0    | 106.5 | 246.4   | 12.1  | 7.2     | 4267.5 | 5.2    | 4.5    | 0.2   | 689.5  | 30.3   |               |
| Som                         |   | 55.0 | 34.0 | 10.0 | 69.0 | 31.0 | 30.0  | 174.1 | *****   | 1977.0 | 131.0  | 661.3  | 138.7  | 893.1 | 2668.2  | 107.3 | 91.8    | *****  | 44.6   | 38.9   | 2.5   | 6772.6 | 270.2  |               |
| Aantal observaties (n)      |   | 8.0  | 6.0  | 3.0  | 8.0  | 6.0  | 6.0   | 9.0   | 9.0     | 9.0    | 9.0    | 9.0    | 9.0    | 9.0   | 9.0     | 9.0   | 9.0     | 9.0    | 9.0    | 9.0    | 9.0   | 9.0    | 9.0    |               |

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH (Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, PO4 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 7

Objectnaam : Geuldert 7 (13)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/06/01  
X-coördinaat (km) : 192.456000  
Y-coördinaat (km) : 416.724000  
Bloknummer : 46-23-43-47  
Latitude : 51.737980  
Longitude : 5.929474  
Lengte proefvlak (m) : 3.00  
Breedte proefvlak (m) : 3.00  
Opp. proefvlak (m²) : 10.00  
Expositie : Geen expositie  
Hellingshoek (graden) : 0  
Altitude : 55  
Bedekking struiklaag (%) : 85  
Bedekking kruidlaag (%) : 25  
Bedekking moslaag (%) : 7  
Bedekking strooisellaag (%) : 75  
Hoogte (hoge) struiklaag (m) : 3.0  
Gem. hoogte (hoge) kruidl (cm) : 30  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadraat (J/N) : J  
Transect : Wel in transect, niet per se homogeen  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : open moeras  
Selectiedoel landelijk : H91E  
IPI : Wilgenstruweel  
Relief : bult / hoogte  
Waterdiepte : 0 - 1 dm  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296925  
Aantal soorten : 11  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 213  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 36-1 Wilgenstruweel met Gagel  
Bodem : 'horst' zompig organisch



Associa analysis

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirdn. |                                            |
|----------|-------|----------|----------|---------|--------------------------------------------|
| 36RG01   | 15.7  | -0.4     | 0.2      | -0.7    | RG Frangula alnus-[Franguletea]            |
| 40RG02   | 19.2  | -0.3     | 0.1      | -0.4    | RG Molinia caerulea-[Betulion pubescentis] |
| 40AA02B  | 21.3  | -0.3     | 0.2      | -0.6    | Carici curtae-Betuletum typicum            |
| 40AA02A  | 21.9  | -0.5     | 0.1      | -0.8    | Carici curtae-Betuletum peucedanetosum     |
| 36AA01   | 22.3  | -0.4     | 0.2      | -0.7    | Salicetum auritae*                         |
| 40AA01C  | 23.0  | -0.1     | 0.1      | -0.1    | Erico-Betuletum inops                      |
| 42AA01D  | 23.5  | 0.0      | 0.9      | -0.4    | Betulo-Quercetum molinietosum              |
| 40AA01B  | 23.9  | 0.2      | 0.5      | 0.0     | Erico-Betuletum callunetosum               |
| 41AA03D  | 24.6  | -0.1     | 0.4      | -0.3    | Leucobryo-Pinetum molinietosum             |
| 42RG02   | 26.3  | 0.1      | 0.6      | -0.1    | RG Rubus fruticosus-[Quercion roboris]     |

\* Classificatie 2015: 36AA01 - Salicetum auritae

|                             |    | L    | T    | C    | V    | PH   | N    | W_C_N | W_CA    | W_CL     | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG   | W_NH4  | W_NO3  | NTO    | W_PHH  | W_PHK  | W_PO4 | W_PTO  | W_VOC  |
|-----------------------------|----|------|------|------|------|------|------|-------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| Alnus glutinosa-kl          | r  | 5    | 5    | 3    | 9=   | 6    | X    | 19.30 | 4730.41 | 29.736   | 37.278 | 104.07 | 42.720 | 83.018 | 162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 |
| Alnus glutinosa-s1          | r  | 5    | 5    | 3    | 9=   | 6    | X    | 19.30 | 4730.41 | 29.736   | 37.278 | 104.07 | 42.720 | 83.018 | 162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 |
| Betula pubescens-kl         | r  | 7    | X    | X    | 8    | 3    | 3    | 23.07 | 5137.94 | 18.336   | 63.695 | 144.28 | 33.529 | 40.421 | 39.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 |
| Betula pubescens-s1         | 2b | 7    | X    | X    | 8    | 3    | 3    | 23.07 | 5137.94 | 18.336   | 63.695 | 144.28 | 33.529 | 40.421 | 39.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 |
| Dryopteris carthusiana-kl   | +  | 5    | X    | X    | 8    | 4    | 3    | 23.43 | 789.967 | 19.132   | 90.810 | 179.46 | 52.018 | 35.208 | 28.456 | 12.910 | 5.8650 | 2641.9 | 3.9459 | 3.3617 | 0.19  | 582.94 | 8.6746 |
| Lonicera periclymenum-kl    | r  | 6    | 5    | 2    | X    | 3    | 4    | 21.84 | 1135.48 | 19.535   | 82.606 | 164.17 | 70.096 | 39.080 | 33.164 | 12.340 | 9.2443 | 1993.2 | 4.2563 | 3.8179 | 0.21  | 339.40 | 14.810 |
| Molinia caerulea-kl         | 2b | 7    | X    | 3    | 7    | X    | 1    | 24.73 | 6118.43 | 10.827   | 40.256 | 98.185 | 4.1497 | 33.130 | 29.735 | 10.893 | 0.2248 | 2515.9 | 4.0941 | 3.2907 | 0.20  | 292.96 | 15.677 |
| Myrica gale-s1              | x  | 8    | 6    | 2    | 9    | 3    | 3    | 21.15 | 5573.49 | 21.822   | -32.09 | 2.3885 | -18.52 | 65.640 | 185.61 | 12.531 | 0.6511 | 4267.4 | 4.6516 | 3.8936 | 0.19  | 1061.5 | 26.593 |
| Phragmites australis-kl     | 1  | 7    | 5    | X    | 10   | 7    | 7    | 15.80 | 03204.6 | 6.891.67 | -17.28 | 35.491 | -1.566 | 181.94 | 450.78 | 10.241 | 11.059 | 6606.6 | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 |
| Rhamnus frangula-s1         | 4  | 6    | 6    | 5    | 8*   | 4    | X    | 23.65 | 578.136 | 15.766   | 85.647 | 175.51 | 51.477 | 31.356 | 23.763 | 12.067 | 1.6683 | 2366.9 | 3.8944 | 3.2635 | 0.22  | 452.44 | 12.162 |
| Rubus species-kl            | +  |      |      |      |      |      |      | 20.47 | 588.969 | 21.514   | 78.470 | 157.90 | 73.201 | 42.338 | 31.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 |
| Rubus species-s1            | 2a |      |      |      |      |      |      | 20.47 | 588.969 | 21.514   | 78.470 | 157.90 | 73.201 | 42.338 | 31.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 |
| Salix cinerea s. cinerea-s1 | x  |      |      |      |      |      |      |       |         |          |        |        |        |        |        |        |        |        |        |        |       |        |        |
| Sorbus aucuparia-s1         | r  | 6    | X    | X    | X    | 4    | X    | 23.37 | 762.910 | 16.696   | 97.651 | 185.63 | 75.249 | 30.736 | 20.999 | 12.851 | 4.4429 | 2124.8 | 3.8335 | 3.3160 | 0.21  | 458.48 | 9.5259 |
| Gemiddelde indicatie        |    | 6.3  | 5.3  | 3.0  | 8.5  | 4.3  | 3.4  | 21.5  | 475.2   | 87.3     | 54.3   | 127.2  | 40.9   | 57.6   | 95.3   | 12.2   | 8.1    | 3089.4 | 4.4    | 3.8    | 0.2   | 558.5  | 19.0   |
| Standaarddeviatie           |    | 1.0  | 0.5  | 0.9  | 0.9  | 1.4  | 1.7  | 2.4   | 824.4   | 232.3    | 38.9   | 54.2   | 29.3   | 39.9   | 118.1  | 0.8    | 7.8    | 1254.9 | 0.6    | 0.6    | 0.1   | 199.3  | 9.6    |
| Mediaan waarde              |    | 6.0  | 5.0  | 3.0  | 8.5  | 4.0  | 3.0  | 21.8  | 135.5   | 19.5     | 63.7   | 144.3  | 42.7   | 40.4   | 33.2   | 12.3   | 5.9    | 2551.4 | 4.3    | 3.7    | 0.2   | 582.9  | 14.9   |
| Som                         |    | 69.0 | 32.0 | 21.0 | 68.0 | 43.0 | 24.0 | 279.7 | 6177.7  | 1134.6   | 706.5  | 1653.4 | 531.8  | 748.7  | 1238.6 | 158.9  | 105.   |        |        |        |       |        |        |

=> Opnamenummer: 8

Objectnaam : Geuldert 8 (13)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/06/01  
X-coördinaat (km) : 192.445000  
Y-coördinaat (km) : 416.724000  
Bloknummer : 46-23-43-47  
Lengte proefvlak (m) : 3.00  
Breedte proefvlak (m) : 3.00  
Opp. proefvlak (m²) : 10.00  
Expositie : Geen expositie  
Hellingshoek (graden) : 0  
Altitude : 50  
Bedekking struiklaag (%) : 85  
Bedekking kruidlaag (%) : 45  
Bedekking moslaag (%) : 10  
Bedekking strooisellaag (%) : 85  
Cov. water : 15  
Hoogte (hoge) struiklaag (m) : 3.0  
Gem. hoogte (hoge) kruidl (cm) : 60  
Maximale hoogte kruidlaag (cm) : 200  
Mossen geïdentificeerd (J/N) : N  
Permanent Quadraat (J/N) : J  
Transect : Wel in transect, wel homogeen  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : open moeras  
Selectiedoel landelijk : H91E  
IPI : Wilgenstruweel  
Relief : laagte  
Waterdiepte : 0 - 1 dm  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296925  
Aantal soorten : 6  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 213  
Startjaar PQ : 2015  
Nat2000geb : 142  
Latitude : 51.737980  
Longitude : 5.929317  
Vegetatie : 36-2 Wilgenstruweel  
Bodem : slenk organisch  
Opmerking : water

#### Associa analysis

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirdn. |                                                                       |
|----------|-------|----------|----------|---------|-----------------------------------------------------------------------|
| 08BB04C  | 17.1  | 0.2      | 0.3      | 0.1     | Typho-Phragmitetum typicum                                            |
| 32BA02A  | 19.7  | 0.0      | 0.9      | -0.4    | Soncho-Epilobietum typicum                                            |
| 08BB04D  | 21.4  | 0.1      | 0.3      | -0.1    | Typho-Phragmitetum thelypteridetosum                                  |
| 08RG08   | 21.5  | 0.0      | 0.2      | -0.1    | RG Carex acutiformis-[Phragmitetalia]                                 |
| 32RG03   | 22.1  | 0.4      | 1.3      | 0.0     | RG Calystegia sepium-Phragmites australis-[Convolvulo-Filipenduletea] |
| 32AA01A  | 22.2  | -0.1     | 0.6      | -0.5    | Valeriano-Filipenduletum calamagrostietosum                           |
| 08BD01   | 22.3  | 0.4      | 1.4      | 0.0     | Cladietum marisci                                                     |
| 32AA01C  | 23.1  | 0.0      | 0.7      | -0.3    | Valeriano-Filipenduletum symphytetosum                                |
| 08BD02   | 23.2  | -0.1     | 0.6      | -0.5    | Caricetum paniculatae                                                 |
| 08BC01   | 23.3  | 0.5      | 1.3      | 0.2     | Caricetum ripariae                                                    |

Classificatie 2015: 36AA01 - Salicetum auritae



|                             |    | L    | T    | C   | V    | PH   | N    | W_C   | N       | W_CA   | W_CL   | W_GHG  | W_GLG  | W_GVG | W_K     | W_MG   | W_NH4  | W_NO3  | NTO    | W_PHH  | W_PHK | W_PO4  | W_PTO  | W_VOC        |  |
|-----------------------------|----|------|------|-----|------|------|------|-------|---------|--------|--------|--------|--------|-------|---------|--------|--------|--------|--------|--------|-------|--------|--------|--------------|--|
| Carex acutiformis-kl        | 2b | 7    | X    | 3   | 9*   | 7    | 5    | 16.84 | 65260.5 | 177.85 | -2.684 | 49.780 | 15.513 | 155.0 | 3595.26 | 13.512 | 13.186 | 7261.8 | 5.3648 | 4.6898 | 0.30  | 1456.7 | 49.668 | Moeraszegge  |  |
| Phragmites australis-kl     | 3  | 7    | 5    | X   | 10   | 7    | 7    | 15.80 | 03204.6 | 891.67 | -17.28 | 35.491 | -1.566 | 181.9 | 4450.78 | 10.241 | 11.059 | 6606.6 | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 | Riet         |  |
| Salix aurita-s1             | x  | 7    | X    | 3   | 8*   | 4    | 3    | 18.75 | 2634.50 | 23.993 | 11.782 | 66.277 | 8.4403 | 66.51 | 7122.34 | 9.8043 | 1.2917 | 3665.2 | 4.8723 | 4.0881 | 0.27  | 374.78 | 28.578 | Geoorde wilg |  |
| Salix cinerea s. cinerea-s1 | 5  |      |      |     |      |      |      |       |         |        |        |        |        |       |         |        |        |        |        |        |       |        |        | Grauwe wilg  |  |
| Salix fragilis-s1           | x  | 5    | 5    | 3   | 8=   | 6    | 6    | 15.86 | 71287.0 | 196.34 | 22.415 | 83.878 | 44.459 | 137.6 | 4170.52 | 7.8961 | 36.481 | 4675.2 | 6.0438 | 5.3838 | 0.31  | 655.47 | 35.494 | Kraakwilg    |  |
| Thelypteris palustris-kl    | +  | 5    | 6    | X   | 8    | 5    | 6    | 17.40 | 43542.7 | 284.09 | -15.79 | 38.560 | 3.2537 | 149.6 | 8662.31 | 12.806 | 16.685 | 6690.1 | 5.2859 | 4.5843 | 0.23  | 1109.3 | 41.717 | Moerasvaren  |  |
| Gemiddelde indicatie        |    | 6.2  | 5.3  | 3.0 | 8.6  | 5.8  | 5.4  | 16.9  | 2785.9  | 314.8  | -0.3   | 54.8   | 14.0   | 138.2 | 400.2   | 10.9   | 15.7   | 5779.8 | 5.5    | 4.9    | 0.3   | 867.2  | 39.9   |              |  |
| Standaarddeviatie           |    | 1.0  | 0.5  | 0.0 | 0.8  | 1.2  | 1.4  | 1.1   | 1658.1  | 300.4  | 15.5   | 18.1   | 16.2   | 38.6  | 218.8   | 2.1    | 11.6   | 1371.2 | 0.5    | 0.5    | 0.1   | 376.8  | 7.2    |              |  |
| Mediaan waarde              |    | 7.0  | 5.0  | 3.0 | 8.0  | 6.0  | 6.0  | 16.8  | 3204.7  | 196.3  | -2.7   | 49.8   | 8.4    | 149.7 | 450.8   | 10.2   | 13.2   | 6606.7 | 5.4    | 4.7    | 0.3   | 739.6  | 41.7   |              |  |
| Som                         |    | 31.0 | 16.0 | 9.0 | 43.0 | 29.0 | 27.0 | 84.7  | *****   | 1573.9 | -1.6   | 274.0  | 70.1   | 690.8 | 2001.2  | 54.3   | 78.7   | *****  | 27.6   | 24.3   | 1.7   | 4335.9 | 199.3  |              |  |
| Aantal observaties (n)      |    | 5.0  | 3.0  | 3.0 | 5.0  | 5.0  | 5.0  | 5.0   | 5.0     | 5.0    | 5.0    | 5.0    | 5.0    | 5.0   | 5.0     | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0   | 5.0    | 5.0    |              |  |

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH(Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 9

Objectnaam : Geuldert 9 (12)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/06/01  
X-coördinaat (km) : 192.402000  
Y-coördinaat (km) : 416.737000  
Bloknummer : 46-23-43-47  
Latitude : 51.738100  
Longitude : 5.928699  
Lengte proefvlak (m) : 5.00  
Breedte proefvlak (m) : 5.00  
Opp. proefvlak (m<sup>2</sup>) : 25.00  
Expositie : Meerdere exposities  
Altitude : 59  
Hellingshoek (graden) : 0  
Bedekking boomlaag (%) : 15  
Bedekking struiklaag (%) : 80  
Bedekking kruidlaag (%) : 5  
Bedekking moslaag (%) : 50  
Bedekking strooisellaag (%) : 50  
Hoogte (hoge) boomlaag (m) : 12  
Hoogte (hoge) struiklaag (m) : 6.0  
Gem. hoogte (hoge) kruidl (cm) : 70  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadrat (J/N) : J  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : open moeras  
Selectiedoel landelijk : H91E  
IPI : Wilgenstruweel  
Relief : laagte  
Waterdiepte : 0 dm (droogstaand)  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296924  
Aantal soorten : 13  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 212  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 36-2 Wilgenstruweel  
Bodem : dikke zompige strooisellaag  
Opmerking : dode berken



Associa analysis

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirdn. |                                                   |
|----------|-------|----------|----------|---------|---------------------------------------------------|
| 36AA02A  | 24.6  | 0.1      | 0.8      | -0.2    | Salicetum cinereae calamagrostietosum canescentis |
| 40AA02B  | 26.0  | 0.2      | 0.3      | 0.1     | Carici curtae-Betuletum typicum                   |
| 36AA02B  | 26.4  | 0.1      | 0.7      | -0.1    | Salicetum cinereae typicum                        |
| 40AA02A  | 28.0  | -0.2     | 0.2      | -0.4    | Carici curtae-Betuletum peucedanetosum            |
| 39AA01B  | 28.1  | 0.1      | 0.8      | -0.2    | Thelypterido-Alnetum sphagnetosum                 |
| 32AA01A  | 29.0  | 0.1      | 0.5      | -0.1    | Valeriano-Filipenduletum calamagrostietosum       |
| 39AA01A  | 29.3  | 0.2      | 0.7      | 0.0     | Thelypterido-Alnetum typicum                      |
| 43RG03   | 29.6  | 0.1      | 1.1      | -0.4    | RG Urtica dioica [Circae-Alnenion]                |
| 36AA01   | 30.3  | -0.1     | 0.3      | -0.3    | Salicetum auritae                                 |
| 43AA05   | 30.5  | -0.1     | 0.6      | -0.4    | Pruno-Fraxinetum                                  |

Classificatie 2015: 39AA02 - Carici elongatae-Alnetum

|                             |    | L    | T    | C    | V     | PH   | N    | W_C   | N_W_CA  | W_CL   | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG    | W_NH4  | W_NO3  | NTO    | W_PHH  | W_PHK  | W_PO4 | W_PTO  | W_VOC  |                   |
|-----------------------------|----|------|------|------|-------|------|------|-------|---------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|-------|--------|--------|-------------------|
| Alnus glutinosa-b1          | 2a | 5    | 5    | 3    | 9=    | 6    | X    | 19.30 | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.01  | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els        |
| Alnus glutinosa-s1          | +  | 5    | 5    | 3    | 9=    | 6    | X    | 19.30 | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.01  | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els        |
| Betula pubescens-kl         | r  | 7    | X    | X    | 8     | 3    | 3    | 23.07 | 5137.94 | 18.336 | 63.695 | 144.28 | 33.529 | 40.42  | 139.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk       |
| Betula pubescens-s1         | +  | 7    | X    | X    | 8     | 3    | 3    | 23.07 | 5137.94 | 18.336 | 63.695 | 144.28 | 33.529 | 40.42  | 139.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk       |
| Betula pubescens-z1         | 2a | 7    | X    | X    | 8     | 3    | 3    | 23.07 | 5137.94 | 18.336 | 63.695 | 144.28 | 33.529 | 40.42  | 139.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk       |
| Carex elata-kl              | +  | 8    | X    | 2    | 10*   | X    | 5    | 17.63 | 12826.4 | 120.42 | -21.32 | 16.433 | -1.762 | 137.6  | 6528.21 | 13.609 | 17.632 | 6736.4 | 5.2328 | 4.5104 | 0.19  | 1052.6 | 44.845 | Stijve zegge      |
| Carex species-s1            | +  |      |      |      |       |      |      | 17.17 | 7535.69 | 489.78 | 1.6904 | 28.633 | 6.7284 | 78.39  | 6117.18 | 8.6172 | 3.1233 | 4445.9 | 5.4111 | 4.7273 | 0.42  | 456.85 | 30.342 | Zegge (G)         |
| Dactylis glomerata-kl       | r  | 7    | X    | 3    | 5     | X    | 6    | 11.73 | 31231.5 | 22.871 | 42.049 | 101.99 | 77.565 | 132.1  | 996.016 | 4.5972 | 9.2094 | 2565.2 | 6.3983 | 5.6987 | 1.96  | 396.05 | 24.647 | Kropaar           |
| Dryopteris dilatata-s1      | +  | 4    | X    | 3    | 6     | X    | 7    | 23.22 | 862.917 | 18.227 | 97.437 | 184.66 | 69.335 | 32.29  | 323.206 | 12.476 | 6.9128 | 2351.4 | 3.8350 | 3.2829 | 0.20  | 539.10 | 8.8422 | Brede stekelvaren |
| Iris pseudacorus-kl         | r  | 7    | 6    | 3    | 9=    | X    | 7    | 16.58 | 83510.0 | 273.00 | -12.99 | 37.230 | 9.7160 | 211.5  | 9433.43 | 11.946 | 26.642 | 7746.4 | 5.4973 | 4.7723 | 0.26  | 1019.3 | 50.205 | Gele lis          |
| Lysimachia vulgaris-s1      | +  | 6    | X    | X    | 8*    | X    | X    | 17.37 | 61745.1 | 29.592 | -8.932 | 38.448 | 6.0009 | 106.4  | 9262.24 | 11.118 | 7.7044 | 5864.2 | 5.1669 | 4.4684 | 0.25  | 689.45 | 42.910 | Gr ote wederik    |
| Molinia caerulea-kl         | r  | 7    | X    | 3    | 7     | X    | 1    | 24.73 | 6118.43 | 10.827 | 40.256 | 98.185 | 4.1497 | 33.13  | 029.735 | 10.893 | 0.2248 | 2515.9 | 4.0941 | 3.2907 | 0.20  | 292.96 | 15.677 | Pijpenstrootje    |
| Phragmites australis-s1     | +  | 7    | 5    | X    | 10    | 7    | 7    | 15.80 | 03204.6 | 891.67 | -17.28 | 35.491 | -1.566 | 181.9  | 4450.78 | 10.241 | 11.059 | 6606.6 | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 | Riet              |
| Rhamnus frangula-s1         | r  | 6    | 6    | 5    | 8*    | 4    | X    | 23.65 | 578.136 | 15.766 | 85.647 | 175.51 | 51.477 | 31.35  | 623.763 | 12.067 | 1.6683 | 2366.9 | 3.8944 | 3.2635 | 0.22  | 452.44 | 12.162 | Sporkehout        |
| Salix cinerea s. cinerea-s1 | 4  |      |      |      |       |      |      |       |         |        |        |        |        |        |         |        |        |        |        |        |       |        |        | Grauwe wilg       |
| Salix species-s2            | 2a |      |      |      |       |      |      | 16.65 | 51014.6 | 232.47 | 2.4846 | 56.435 | 12.682 | 91.94  | 7181.06 | 8.4674 | 4.5391 | 2845.3 | 5.4921 | 4.8565 | 0.38  | 374.41 | 27.616 | Wilg (G)          |
| Gemiddelde indicatie        |    | 6.4  | 5.4  | 3.1  | 8.1   | 4.6  | 4.7  | 19.5  | 1080.2  | 147.9  | 31.6   | 94.3   | 28.0   | 88.3   | 172.6   | 11.0   | 9.4    | 3979.0 | 4.9    | 4.2    | 0.4   | 562.4  | 26.9   |                   |
| Standaarddeviatie           |    | 1.1  | 0.5  | 0.8  | 1.4   | 1.6  | 2.1  | 3.7   | 1157.7  | 238.7  | 37.6   | 54.3   | 24.6   | 54.9   | 164.8   | 2.2    | 8.9    | 1812.2 | 0.8    | 0.8    | 0.4   | 225.8  | 13.0   |                   |
| Mediaan waarde              |    | 7.0  | 5.0  | 3.0  | 8.0   | 4.0  | 5.0  | 19.3  | 730.4   | 29.6   | 37.3   | 102.0  | 33.5   | 83.0   | 117.2   | 12.1   | 6.9    | 2845.4 | 4.9    | 4.3    | 0.2   | 456.9  | 27.6   |                   |
| Som                         |    | 83.0 | 27.0 | 25.0 | 105.0 | 32.0 | 42.0 | 292.4 | *****   | 2219.1 | 474.7  | 1414.0 | 420.4  | 1324.3 | 2588.4  | 165.5  | 141.7  | *****  | 73.7   | 63.7   | 5.8   | 8435.6 | 402.8  |                   |
| Aantal observaties (n)      |    | 13.0 | 5.0  | 8.0  | 13.0  | 7.0  | 9.0  | 15.0  | 15.0    | 15.0   | 15.0   | 15.0   | 15.0   | 15.0   | 15.0    | 15.0   | 15.0   | 15.0   | 15.0   | 15.0   | 15.0  | 15.0   | 15.0   |                   |

L (Licht) - 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht) - 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH (Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 10

Objectnaam : geuldert 10 (40)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/06/01  
X-coördinaat (km) : 192.274000  
Y-coördinaat (km) : 416.684000  
Bloknummer : 46-23-43-26  
Latitude : 51.737630  
Longitude : 5.926841  
Lengte proefvlak (m) : 10.00  
Breedte proefvlak (m) : 10.00  
Opp. proefvlak (m<sup>2</sup>) : 100.00  
Expositie : Geen expositie  
Hellingshoek (graden) : 0  
Altitude : 60  
Bedekking boomlaag (%) : 60  
Boom c2 : 15  
Bedekking struiklaag (%) : 35  
Bedekking kruidlaag (%) : 5  
Bedekking moslaag (%) : 10  
Bedekking strooisellaag (%) : 90  
Hoogte (hoge) boomlaag (m) : 20  
Hoogte lage boomlaag (m) : 10  
Hoogte (hoge) struiklaag (m) : 3.0  
Gem. hoogte (hoge) kruidl (cm) : 45  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadraat (J/N) : J  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : vochtig loofbos  
Selectiedoel landelijk : H91E0\_C  
IPI : Elzenbroekbos  
Relief : laagte  
Waterdiepte : 0 dm (droogstaand)  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296952  
Aantal soorten : 14  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 240  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 39-1 Elzenbroek met Stijve zegge  
Bodem : donker roodbruin humusrijk  
Opmerking : veel dood liggende wilgen en elzen

#### Associa analysis

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirdn. |                                                |
|----------|-------|----------|----------|---------|------------------------------------------------|
| 39AA02D  | 27.7  | 0.1      | 0.7      | -0.2    | Carici elongatae-Alnetum rubetosum idaei       |
| 39RG04   | 27.7  | 0.3      | 0.8      | 0.0     | RG Urtica dioica-[Alnion glutinosae]           |
| 39AA02A  | 27.8  | 0.3      | 0.5      | 0.2     | Carici elongatae-Alnetum typicum*              |
| 43AA04   | 29.7  | -0.2     | 0.4      | -0.5    | Carici remotae-Fraxinetum                      |
| 39AA02E  | 30.0  | 0.1      | 0.5      | 0.0     | Carici elongatae-Alnetum caricetosum curtae    |
| 39AA02B  | 30.1  | 0.1      | 0.5      | -0.2    | Carici elongatae-Alnetum cardaminetosum amarae |
| 39AA02C  | 31.4  | 0.1      | 0.7      | -0.2    | Carici elongatae-Alnetum ribetosum nigri       |
| 39RG02   | 32.0  | 0.1      | 0.3      | -0.1    | RG Rubus fruticosus-[Alnion glutinosae]        |
| 39RG01   | 32.8  | 0.8      | 0.8      | 0.7     | RG Calamagrostis canescens-[Alnion glutinosae] |
| 39AA01A  | 33.0  | 0.6      | 0.7      | 0.5     | Thelypterido-Alnetum typicum                   |

\* Classificatie 2015: 39AA02A - Carici elongatae-Alnetum typicum



|                             | L    | T    | C    | V    | PH   | N    | W_C   | N     | W_CA    | W_CL   | W_GHG   | W_GLG  | W_GVG  | W_K   | W_MG    | W_NH4  | W_NO3  | NTO    | W_PHH  | W_PHK  | W_PO4 | W_PTO  | W_VOC  |                       |
|-----------------------------|------|------|------|------|------|------|-------|-------|---------|--------|---------|--------|--------|-------|---------|--------|--------|--------|--------|--------|-------|--------|--------|-----------------------|
| Acer pseudoplatanus-kl      | +    | 4    | X    | 4    | 6    | X    | 7     | 20.09 | 8207.39 | 17.480 | 90.7421 | 58.84  | 103.69 | 49.07 | 142.057 | 9.9889 | 25.736 | 1790.9 | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn        |
| Aesculus hippocastanum-kl   | +    |      |      |      |      |      |       | 20.31 | 1219.29 | 16.839 | 90.4511 | 5.841  | 11.055 | 1.563 | 45.5139 | .3164  | 29.291 | 2047.4 | 4.7738 | 4.2766 | 0.23  | 485.27 | 16.628 | Witte paardenkastanje |
| Alnus glutinosa-b1          | 4    | 5    | 5    | 3    | 9=   | 6    | X     | 19.30 | 4730.41 | 29.736 | 37.2781 | 04.07  | 42.720 | 83.01 | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els            |
| Alnus glutinosa-b3          | 2a   | 5    | 5    | 3    | 9=   | 6    | X     | 19.30 | 4730.41 | 29.736 | 37.2781 | 04.07  | 42.720 | 83.01 | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els            |
| Alnus glutinosa-kl          | r    | 5    | 5    | 3    | 9=   | 6    | X     | 19.30 | 4730.41 | 29.736 | 37.2781 | 04.07  | 42.720 | 83.01 | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els            |
| Alnus glutinosa-s1          | 2a   | 5    | 5    | 3    | 9=   | 6    | X     | 19.30 | 4730.41 | 29.736 | 37.2781 | 04.07  | 42.720 | 83.01 | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els            |
| Athyrium filix-femina-kl    | +    | 3    | X    | 3    | 7    | X    | 6     | 20.87 | 8403.50 | 21.299 | 67.0861 | 35.77  | 58.481 | 62.00 | 067.161 | 11.606 | 21.246 | 3065.5 | 4.7212 | 4.1836 | 0.20  | 496.42 | 22.643 | Wijfjesvaren          |
| Carex elata-kl              | +    | 8    | X    | 2    | 10*  | X    | 5     | 17.63 | 12826.4 | 120.42 | -21.321 | 6.433  | -1.762 | 137.6 | 6528.21 | 13.609 | 17.632 | 6736.4 | 5.2328 | 4.5104 | 0.19  | 1052.6 | 44.845 | Stijve zegge          |
| Carex remota-kl             | +    | 3    | 5    | 3    | 8    | X    | X     | 19.69 | 2693.87 | 23.931 | 52.4541 | 18.80  | 52.693 | 82.76 | 0102.31 | 11.319 | 24.062 | 3705.0 | 4.9228 | 4.4114 | 0.19  | 579.32 | 27.925 | IJle zegge            |
| Dryopteris carthusiana-kl   | r    | 5    | X    | 3    | X    | 4    | 3     | 23.43 | 789.967 | 19.132 | 90.8101 | 79.46  | 52.018 | 35.20 | 828.456 | 12.910 | 5.8650 | 2641.9 | 3.9459 | 3.3617 | 0.19  | 582.94 | 8.6746 | Smalle stekelvaren    |
| Dryopteris dilatata-kl      | +    | 4    | X    | 3    | 6    | X    | 7     | 23.22 | 862.917 | 18.227 | 97.4371 | 84.66  | 69.335 | 32.29 | 323.206 | 12.476 | 6.9128 | 2351.4 | 3.8350 | 3.2829 | 0.20  | 539.10 | 8.8422 | Brede stekelvaren     |
| Hedera helix-kl             | r    | 4    | 5    | 2    | 5    | X    | X     | 21.31 | 1232.21 | 17.917 | 85.7011 | 53.74  | 99.665 | 50.74 | 445.409 | 11.268 | 26.404 | 2298.3 | 4.5665 | 4.1334 | 0.21  | 475.30 | 18.621 | Klimop                |
| Iris pseudacorus-kl         | r    | 7    | 6    | 3    | 9=   | X    | 7     | 16.58 | 83510.0 | 273.00 | -12.993 | 7.230  | 9.7160 | 211.5 | 9433.43 | 11.946 | 26.642 | 7746.4 | 5.4973 | 4.7723 | 0.26  | 1019.3 | 50.205 | Gele lis              |
| Lysimachia nummularia-kl    | +    | 4    | 6    | 4    | 6*   | X    | X     | 14.18 | 25012.3 | 200.36 | 7.52985 | 5.907  | 29.822 | 239.1 | 6250.70 | 6.8240 | 13.781 | 6246.6 | 6.0740 | 5.4211 | 0.61  | 826.92 | 46.466 | Penningkruid          |
| Quercus robur-b3            | +    | 7    | 6    | 6    | X    | X    | X     | 22.80 | 452.813 | 14.939 | 95.7061 | 82.86  | 80.269 | 30.29 | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik              |
| Quercus robur-kl            | r    | 7    | 6    | 6    | X    | X    | X     | 22.80 | 452.813 | 14.939 | 95.7061 | 82.86  | 80.269 | 30.29 | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik              |
| Rubus species-kl            | r    |      |      |      |      |      |       | 20.47 | 588.969 | 21.514 | 78.4701 | 57.90  | 73.201 | 42.33 | 831.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 | Braam (G)             |
| Salix cinerea s. cinerea-b3 | 2a   |      |      |      |      |      |       |       |         |        |         |        |        |       |         |        |        |        |        |        |       |        |        | Grauwe wilg           |
| Salix cinerea s. cinerea-kl | +    |      |      |      |      |      |       |       |         |        |         |        |        |       |         |        |        |        |        |        |       |        |        | Grauwe wilg           |
| Salix cinerea s. cinerea-s1 | 3    |      |      |      |      |      |       |       |         |        |         |        |        |       |         |        |        |        |        |        |       |        |        | Grauwe wilg           |
| Gemiddelde indicatie        | 5.1  | 5.4  | 3.4  | 7.8  | 5.6  | 5.8  | 20.0  |       | 963.2   | 52.9   | 56.9    | 125.7  | 58.2   | 81.6  | 134.6   | 11.5   | 18.2   | 3545.1 | 4.7    | 4.1    | 0.3   | 604.7  | 23.9   |                       |
| Standaarddeviatie           | 1.5  | 0.5  | 1.1  | 1.6  | 0.8  | 1.5  | 2.4   |       | 1385.0  | 72.2   | 37.9    | 50.6   | 30.4   | 59.2  | 143.8   | 1.6    | 8.9    | 1778.6 | 0.6    | 0.6    | 0.1   | 201.3  | 13.0   |                       |
| Mediaan waarde              | 5.0  | 5.0  | 3.0  | 8.5  | 6.0  | 6.5  | 20.1  |       | 403.5   | 21.5   | 67.1    | 135.8  | 52.7   | 62.0  | 67.2    | 11.9   | 24.1   | 3065.5 | 4.8    | 4.3    | 0.2   | 582.9  | 22.6   |                       |
| Som                         | 76.0 | 54.0 | 51.0 | 93.0 | 28.0 | 35.0 | 340.7 |       | *****   | 899.0  | 966.9   | 2137.7 | 989.31 | 387.1 | 2287.8  | 195.9  | 309.8  | *****  | 80.3   | 70.3   | 4.3   | *****  | 406.0  |                       |
| Aantal observaties (n)      | 15.0 | 10.0 | 15.0 | 12.0 | 5.0  | 6.0  | 17.0  |       | 17.0    | 17.0   | 17.0    | 17.0   | 17.0   | 17.0  | 17.0    | 17.0   | 17.0   | 17.0   | 17.0   | 17.0   | 17.0  | 17.0   | 17.0   |                       |

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH (Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 11

Objectnaam : Geuldert 11 (40)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/06/01  
X-coördinaat (km) : 192.255000  
Y-coördinaat (km) : 416.686000  
Bloknummer : 46-23-43-26  
Latitude : 51.737640  
Longitude : 5.926562  
Lengte proefvlak (m) : 10.00  
Breedte proefvlak (m) : 10.00  
Opp. proefvlak (m²) : 100.00  
Expositie : Geen expositie  
Hellingshoek (graden) : 0  
Altitude : 63  
Bedekking boomlaag (%) : 60  
Boom c2 : 30  
Bedekking struiklaag (%) : 10  
Bedekking kruidlaag (%) : 45  
Bedekking moslaag (%) : 5  
Bedekking strooisellaag (%) : 50  
Hoogte (hoge) boomlaag (m) : 30  
Hoogte lage boomlaag (m) : 8  
Hoogte (hoge) struiklaag (m) : 2.0  
Gem. hoogte (hoge) kruidl (cm) : 120  
Maximale hoogte kruidlaag (cm) : 150  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadraat (J/N) : J  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : vochtig loofbos  
Selectiedoel landelijk : H91E0\_C  
IPI : Elzenbroekbos  
Relief : laagte  
Waterdiepte : 0 dm (droogstaand)  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296952  
Aantal soorten : 21  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 240  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 39-1 Elzenbroek met Stijve zegge  
Bodem : roodbruine humusrijk org laag



#### Associa analysis

Syntaxon Index Norm.Lh. Incompl. Weirtn.

|         |      |     |     |      |                                                |
|---------|------|-----|-----|------|------------------------------------------------|
| 40AA02A | 38.3 | 0.3 | 0.6 | 0.1  | Carici curtae-Betuletum peucedanetosum         |
| 39RG04  | 40.4 | 0.5 | 0.2 | 0.6  | RG Urtica dioica-[Alnion glutinosae]           |
| 39AA02A | 40.8 | 0.9 | 0.4 | 1.2  | Carici elongatae-Alnetum typicum               |
| 39RG02  | 41.2 | 0.4 | 0.2 | 0.5  | RG Rubus fruticosus-[Alnion glutinosae]*       |
| 39AA02D | 41.5 | 0.6 | 0.6 | 0.6  | Carici elongatae-Alnetum rubetosum idaei       |
| 39AA02C | 42.5 | 0.5 | 0.5 | 0.5  | Carici elongatae-Alnetum ribetosum nigri       |
| 36AA02B | 44.0 | 0.9 | 0.7 | 1.0  | Salicetum cinereae typicum                     |
| 39AA02B | 45.2 | 0.4 | 0.4 | 0.4  | Carici elongatae-Alnetum cardaminetosum amarae |
| 39AA02E | 46.6 | 0.6 | 0.4 | 0.7  | Carici elongatae-Alnetum caricetosum curtae    |
| 43AA05  | 46.7 | 0.0 | 0.3 | -0.2 | Pruno-Fraxinetum                               |

\* Classificatie 2015: 39AA02A - Carici elongatae-Alnetum typicum

|                             | L     | T    | C    | V     | PH   | N    | W_C   | N_W_CA | W_CL    | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG   | W_NH4  | W_NO3  | NTO    | W_PHH   | W_PHK  | W_PO4  | W_PTO | W_VOC  |        |                   |
|-----------------------------|-------|------|------|-------|------|------|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|-------|--------|--------|-------------------|
| Acer pseudoplatanus-kl      | 1     | 4    | X    | 4     | 6    | X    | 7     | 20.09  | 8207.39 | 17.480 | 90.742 | 158.84 | 103.69 | 49.071 | 42.057 | 9.9889 | 25.736 | 1790.9  | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn    |
| Acer pseudoplatanus-sl      | +     | 4    | X    | 4     | 6    | X    | 7     | 20.09  | 8207.39 | 17.480 | 90.742 | 158.84 | 103.69 | 49.071 | 42.057 | 9.9889 | 25.736 | 1790.9  | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn    |
| Alnus glutinosa-b1          | 3     | 5    | 5    | 3     | 9=   | 6    | X     | 19.30  | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.018 | 162.67 | 12.270 | 24.071 | 3993.4  | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els        |
| Alnus glutinosa-b3          | 2b    | 5    | 5    | 3     | 9=   | 6    | X     | 19.30  | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.018 | 162.67 | 12.270 | 24.071 | 3993.4  | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els        |
| Alnus glutinosa-s1          | 1     | 5    | 5    | 3     | 9=   | 6    | X     | 19.30  | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.018 | 162.67 | 12.270 | 24.071 | 3993.4  | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els        |
| Betula pendula-b1           | +     | 7    | X    | X     | X    | X    | X     | 25.16  | 827.339 | 14.921 | 108.29 | 198.61 | 73.119 | 23.180 | 14.094 | 11.910 | 0.9411 | 1762.1  | 3.6835 | 2.8949 | 0.20  | 349.26 | 7.0955 | Ruwe berk         |
| Carex elata-kl              | 2b    | 8    | X    | 2     | 10*  | X    | 5     | 17.63  | 12826.4 | 120.42 | -21.32 | 16.433 | -1.762 | 137.66 | 528.21 | 13.609 | 17.632 | 6736.4  | 5.2328 | 4.5104 | 0.19  | 1052.6 | 44.845 | Stijve zegge      |
| Carex remota-kl             | 1     | 3    | 5    | 3     | 8    | X    | X     | 19.69  | 2693.87 | 23.931 | 52.454 | 118.80 | 52.693 | 82.760 | 102.31 | 11.319 | 24.062 | 3705.0  | 4.9228 | 4.4114 | 0.19  | 579.32 | 27.925 | IJle zegge        |
| Dryopteris dilatata-kl      | 2a    | 4    | X    | 3     | 6    | X    | 7     | 23.22  | 862.917 | 18.227 | 97.437 | 184.66 | 69.335 | 32.293 | 23.206 | 12.476 | 6.9128 | 2351.4  | 3.8350 | 3.2829 | 0.20  | 539.10 | 8.8422 | Brede stekelvaren |
| Glechoma hederacea-kl       | 2b    | 6    | 6    | 3     | 6    | X    | 7     | 15.11  | 2996.55 | 25.403 | 47.654 | 106.59 | 86.315 | 116.58 | 103.33 | 6.1346 | 20.720 | 2548.3  | 6.0199 | 5.5989 | 0.84  | 383.79 | 26.688 | Hondsdrif         |
| Hedera helix-kl             | r     | 4    | 5    | 2     | 5    | X    | X     | 21.31  | 1232.21 | 17.917 | 85.701 | 153.74 | 99.665 | 50.744 | 45.409 | 11.268 | 26.404 | 2298.3  | 4.5665 | 4.1334 | 0.21  | 475.30 | 18.621 | Klimop            |
| Ilex aquifolium-kl          | r     | 4    | 5    | 2     | 5    | 4    | 5     | 24.23  | 765.298 | 15.740 | 99.159 | 184.09 | 90.827 | 30.391 | 22.694 | 13.673 | 6.9632 | 2142.8  | 3.7010 | 3.3192 | 0.19  | 522.00 | 11.720 | Hulst             |
| Iris pseudacorus-kl         | 1     | 7    | 6    | 3     | 9=   | X    | 7     | 16.58  | 83510.0 | 273.00 | -12.99 | 37.230 | 9.7160 | 211.59 | 433.43 | 11.946 | 26.642 | 7746.4  | 5.4973 | 4.7723 | 0.26  | 1019.3 | 50.205 | Gele lis          |
| Juncus effusus-kl           | r     | 8    | 5    | 3     | 7    | 3    | 4     | 17.14  | 51394.0 | 31.329 | 2.0007 | 45.081 | 9.1896 | 115.65 | 154.79 | 9.8592 | 4.0727 | 5366.6  | 5.1215 | 4.3775 | 0.38  | 650.82 | 38.562 | Pitrus            |
| Lysimachia nummularia-kl    | +     | 4    | 6    | 4     | 6*   | X    | X     | 14.18  | 25012.3 | 200.36 | 7.5298 | 55.907 | 29.822 | 239.16 | 250.70 | 6.8240 | 13.781 | 6246.6  | 6.0740 | 5.4211 | 0.61  | 826.92 | 46.466 | Penningkruid      |
| Osmunda regalis-kl          | 2a    | 5    | 6    | 2     | 8    | 4    | 5     | 21.42  | 8346.15 | 25.185 | 27.599 | 96.072 | 5.9496 | 59.614 | 87.813 | 14.144 | 3.4476 | 3933.7  | 4.4537 | 3.7974 | 0.23  | 562.10 | 24.712 | Koningsvaren      |
| Phragmites australis-kl     | 1     | 7    | 5    | X     | 10   | 7    | 7     | 15.80  | 03204.6 | 891.67 | -17.28 | 35.491 | -1.566 | 181.94 | 450.78 | 10.241 | 11.059 | 6606.6  | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 | Riet              |
| Quercus robur-kl            | r     | 7    | 6    | 6     | X    | X    | X     | 22.80  | 452.813 | 14.939 | 95.706 | 182.86 | 80.269 | 30.299 | 19.708 | 11.306 | 2.6867 | 1692.1  | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik          |
| Rhamnus frangula-sl         | +     | 6    | 6    | 5     | 8*   | 4    | X     | 23.65  | 578.136 | 15.766 | 85.647 | 175.51 | 51.477 | 31.356 | 23.763 | 12.067 | 1.6683 | 2366.9  | 3.8944 | 3.2635 | 0.22  | 452.44 | 12.162 | Sporkehout        |
| Rubus species-kl            | 1     |      |      |       |      |      |       | 20.47  | 588.969 | 21.514 | 78.470 | 157.90 | 73.201 | 42.338 | 31.229 | 12.945 | 10.559 | 2278.0  | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 | Braam (G)         |
| Salix cinerea s. cinerea-b3 | x     |      |      |       |      |      |       |        |         |        |        |        |        |        |        |        |        |         |        |        |       |        |        | Grauwe wilg       |
| Sorbus aucuparia-kl         | r     | 6    | X    | X     | X    | 4    | X     | 23.37  | 762.910 | 16.696 | 97.651 | 185.63 | 75.249 | 30.736 | 20.999 | 12.851 | 4.442  | 92124.8 | 3.8335 | 3.3160 | 0.21  | 458.48 | 9.5259 | Wilde lijsterbes  |
| Taxus baccata-kl            | x     | 4    | 5    | 2     | 5*   | 7    | X     | 22.29  | 2105.35 | 15.929 | 98.061 | 173.43 | 108.28 | 36.764 | 31.747 | 11.447 | 18.05  | 11769.1 | 4.2099 | 3.8239 | 0.20  | 466.96 | 11.153 | Taxus             |
| Urtica dioica-kl            | +     | X    | X    | X     | 6    | 7    | 8     | 16.41  | 2611.64 | 29.343 | 53.534 | 115.39 | 84.419 | 90.704 | 90.316 | 7.2270 | 26.46  | 52163.0 | 5.8642 | 5.5389 | 0.58  | 359.41 | 23.335 | Grote brandnetel  |
| Gemiddelde indicatie        | 5.4   | 5.4  | 3.2  | 7.3   | 5.3  | 6.3  | 19.9  | 955.6  | 82.5    | 55.6   | 124.1  | 57.9   | 82.2   | 130.7  | 11.2   | 15.2   | 3452.2 | 4.8     | 4.2    | 0.3    | 569.7 | 23.6   |        |                   |
| Standaarddeviatie           | 1.5   | 0.5  | 1.1  | 1.7   | 1.4  | 1.2  | 3.0   | 1325.3 | 183.9   | 41.4   | 55.1   | 35.2   | 59.2   | 146.0  | 2.1    | 9.5    | 1831.9 | 0.8     | 0.8    | 0.2    | 193.3 | 13.2   |        |                   |
| Mediaan waarde              | 5.0   | 5.0  | 3.0  | 7.0   | 6.0  | 7.0  | 20.1  | 346.2  | 23.9    | 53.5   | 118.8  | 69.3   | 59.6   | 87.8   | 11.9   | 17.6   | 2367.0 | 4.8     | 4.3    | 0.2    | 539.1 | 23.3   |        |                   |
| Som                         | 113.0 | 81.0 | 57.0 | 138.0 | 58.0 | 69.0 | 458.7 | *****  | 1896.5  | 1278.6 | 2853.4 | 1331.8 | 1891.0 | 3006.7 | 258.0  | 350.2  | *****  | 109.6   | 96.6   | 7.0    | ***** | 543.0  |        |                   |
| Aantal observaties (n)      | 21.0  | 15.0 | 18.0 | 19.0  | 11.0 | 11.0 | 23.0  | 23.0   | 23.0    | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 23.0   | 23.0    | 23.0   | 23.0   | 23.0  | 23.0   |        |                   |

L (Licht) - 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht) - 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH (Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 12

Objectnaam : Geuldert 12 (14b)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/06/01  
X-coördinaat (km) : 192.517000  
Y-coördinaat (km) : 416.710000  
Bloknummer : 46-23-43-57  
Latitude : 51.737850  
Longitude : 5.930353  
Lengte proefvlak (m) : 4.00  
Breedte proefvlak (m) : 2.00  
Opp. proefvlak (m<sup>2</sup>) : 6.00  
Expositie : Geen expositie  
Altitude : 58  
Hellingshoek (graden) : 0  
Bedecking kruidlaag (%) : 95  
Cov\_water : 100  
Gem. hoogte (hoge) kruidl (cm) : 200  
Water\_hgt : 10  
Mossen geïdentificeerd (J/N) : N  
Permanent Quadraat (J/N) : J  
Transect : Wel in transect, wel homogeen  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : open moeras  
Selectiedoel landelijk : H7210  
IPI : Riet- en biezenhorz  
Relief : laagte  
Waterdiepte : 0 - 1 dm  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296926  
Aantal soorten : 4  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 214  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 8-1 Rietmoeras met Galigaan gordel  
Bodem : water



Associa analysis

Syntaxon Index Norm.Lh. Incompl. Weirnd.

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirnd. |                                                                       |
|----------|-------|----------|----------|---------|-----------------------------------------------------------------------|
| 08BD01   | 12.6  | -0.5     | 0.0      | -0.7    | Cladietum marisci                                                     |
| 08BB04D  | 14.0  | -0.4     | 0.3      | -0.8    | Typho-Phragmitetum thelypteridetosum                                  |
| 08BB04C  | 18.0  | -0.1     | 0.3      | -0.3    | Typho-Phragmitetum typicum                                            |
| 08BB04B  | 18.6  | 0.2      | 0.2      | 0.2     | Typho-Phragmitetum calthetosum                                        |
| 32RG03   | 18.8  | -0.2     | 0.2      | -0.4    | RG Calystegia sepium-Phragmites australis-[Convolvulo-Filipenduletea] |
| 08BC01   | 19.8  | 0.0      | 1.3      | -0.4    | Caricetum ripariae                                                    |
| 38AA03D  | 20.0  | 1.6      | 0.1      | 2.2     | Cardamino amarae-Salicetum inops                                      |
| 32RG01   | 20.2  | -0.2     | 1.0      | -0.7    | RG Eupatorium cannabinum-[Convolvulo-Filipenduletea]                  |
| 08BB04A  | 21.2  | 0.3      | 1.6      | -0.2    | Typho-Phragmitetum typhetosum angustifoliae                           |
| 32BA02B  | 21.3  | -0.1     | 0.5      | -0.5    | Soncho-Epilobietum althaeetosum                                       |

Classificatie 2015: 36RG02 - RG Myrica gale-[Salicion cinereae]

|                          |    | L    | T    | C   | V    | PH   | N    | W_C_N | W_CA    | W_CL   | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG   | W_NH4  | W_NO3  | W_NTO  | W_PHH  | W_PHK  | W_PO4 | W_PTO  | W_VOC  |             |
|--------------------------|----|------|------|-----|------|------|------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|-------------|
| Cladium mariscus-kl      | 2a | 9    | 6    | 3   | 10   | 9    | 3    | 16.95 | 93862.2 | 414.24 | -47.39 | -12.73 | -31.23 | 151.49 | 765.52 | 12.133 | 5.4107 | 6705.4 | 5.3041 | 4.6060 | 0.19  | 1349.7 | 42.436 | Galigaan    |
| Convolvulus sepium-kl    | +  | 8    | 6    | 5   | 6    | 7    | 9    | 15.05 | 82068.2 | 326.52 | 18.083 | 74.387 | 43.762 | 163.54 | 269.84 | 8.3779 | 28.039 | 4688.9 | 6.3445 | 5.6349 | 0.52  | 635.07 | 38.066 | Haagwinde   |
| Phragmites australis-kl  | 5  | 7    | 5    | X   | 10   | 7    | 7    | 15.80 | 03204.6 | 891.67 | -17.28 | 35.491 | -1.566 | 181.94 | 450.78 | 10.241 | 11.059 | 6606.6 | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 | Riet        |
| Thelypteris palustris-kl | +  | 5    | 6    | X   | 8    | 5    | 6    | 17.40 | 43542.7 | 284.09 | -15.79 | 38.560 | 3.2537 | 149.68 | 662.31 | 12.806 | 16.685 | 6690.1 | 5.2859 | 4.5843 | 0.23  | 1109.3 | 41.717 | Moerasvaren |
| Gemiddelde indicatie     |    | 7.3  | 5.8  | 4.0 | 8.5  | 7.0  | 6.3  | 16.3  | 3169.5  | 479.1  | -15.6  | 33.9   | 3.6    | 161.7  | 537.1  | 10.9   | 15.3   | 6172.8 | 5.8    | 5.1    | 0.4   | 958.4  | 41.5   |             |
| Standaarddeviatie        |    | 1.5  | 0.4  | 1.0 | 1.7  | 1.4  | 2.2  | 0.9   | 677.0   | 242.8  | 23.2   | 31.0   | 26.7   | 12.9   | 191.5  | 1.7    | 8.4    | 857.5  | 0.5    | 0.5    | 0.2   | 286.5  | 2.1    |             |
| Mediaan waarde           |    | 7.5  | 6.0  | 4.0 | 9.0  | 7.0  | 6.5  | 16.4  | 3373.7  | 370.4  | -16.5  | 37.0   | 0.8    | 157.5  | 556.6  | 11.2   | 13.9   | 6648.4 | 5.7    | 5.1    | 0.4   | 924.4  | 42.1   |             |
| Som                      |    | 29.0 | 23.0 | 8.0 | 34.0 | 28.0 | 25.0 | 65.2  | *****   | 1916.5 | -62.4  | 135.7  | 14.2   | 646.7  | 2148.5 | 43.6   | 61.2   | *****  | 23.0   | 20.4   | 1.63  | 833.7  | 166.1  |             |
| Aantal observaties (n)   |    | 4.0  | 4.0  | 2.0 | 4.0  | 4.0  | 4.0  | 4.0   | 4.0     | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0    | 4.0   | 4.0    | 4.0    |             |

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH(Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 13

Objectnaam : Geuldert 13 (14b)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/06/01  
X-coördinaat (km) : 192.516000  
Y-coördinaat (km) : 416.705000  
Bloknummer : 46-23-43-57  
Latitude : 51.737800  
Longitude : 5.930347  
Lengte proefvlak (m) : 5.00  
Breedte proefvlak (m) : 2.00  
Opp. proefvlak (m²) : 10.00  
Expositie : Geen expositie  
Hellingshoek (graden) : 0  
Altitude : 48  
Bedekking boomlaag (%) : 5  
Bedekking struiklaag (%) : 90  
Bedekking kruidlaag (%) : 10  
Bedekking moslaag (%) : 5  
Bedekking strooisellaag (%) : 95  
Hoogte (hoge) boomlaag (m) : 15  
Hoogte (hoge) struiklaag (m) : 1.6  
Gem. hoogte (hoge) kruidl (cm) : 200  
Mossen geïdentificeerd (J/N) : J  
Permanent Quadraat (J/N) : J  
Transect : Niet in transect, wel homogeen  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : open moeras  
Selectiedoel landelijk : H91E  
IPI : Gagelstruweel  
Relief : laagte  
Waterdiepte : 0 dm (droogstaand)  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296926  
Aantal soorten : 9  
Gebiedsnaam : Geuldert  
Stamnummer PQ : 214  
Startjaar PQ : 2015  
Nat2000geb : 142  
Vegetatie : 36-1 Wilgenstruweel met Gagel (zone)  
Bodem : dik organisch pakket



#### Associa analysis

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirdn. |                                                   |
|----------|-------|----------|----------|---------|---------------------------------------------------|
| 36AA01   | 24.8  | -0.3     | 0.4      | -0.6    | Salicetum auritae                                 |
| 08BD01   | 27.7  | 0.9      | 1.4      | 0.8     | Cladietum marisci                                 |
| 36AA02A  | 27.7  | -0.1     | 0.9      | -0.5    | Salicetum cinereae calamagrostietosum canescentis |
| 09RG04   | 28.3  | 0.0      | 0.5      | -0.2    | RG Myrica gale-[Caricion nigrae]                  |
| 36AA02B  | 28.4  | 0.0      | 0.9      | -0.4    | Salicetum cinereae typicum                        |
| 09AA02B  | 28.6  | 0.1      | 0.7      | -0.2    | Pallavicinio-Sphagnetum molinietosum              |
| 08BB04C  | 29.2  | 0.6      | 0.3      | 0.8     | Typho-Phragmitetum typicum                        |
| 36RG02   | 29.4  | 0.4      | 0.7      | 0.2     | RG Myrica gale-[Salicion cinereae]*               |
| 40AA02A  | 30.1  | -0.2     | 0.8      | -0.6    | Carici curtae-Betuletum peucedanetosum            |
| 40AA02B  | 30.1  | 0.2      | 1.0      | -0.2    | Carici curtae-Betuletum typicum                   |

\* Classificatie 2015: 36RG02 - RG Myrica gale-[Salicion cinereae]

|                             | L    | T    | C    | V    | PH   | N    | W_C   | N      | W_CA    | W_CL   | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG   | W_NH4  | W_NO3  | NTO    | W_PHH  | W_PHK  | W_PO4  | W_PTO  | W_VOC  |             |
|-----------------------------|------|------|------|------|------|------|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| Alnus glutinosa-sl          | +    | 5    | 5    | 3    | 9=   | 6    | X     | 19.30  | 4730.41 | 29.736 | 37.278 | 104.07 | 42.720 | 83.018 | 162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23   | 638.10 | 28.502 | Zwarte els  |
| Betula pendula-bl           | x    | 7    | X    | X    | X    | X    | X     | 25.16  | 827.339 | 14.921 | 108.29 | 198.61 | 73.119 | 23.180 | 14.094 | 11.910 | 0.9411 | 1762.1 | 3.6835 | 2.8949 | 0.20   | 349.26 | 7.0955 | Ruwe berk   |
| Convolvulus sepium-kl       | 1    | 8    | 6    | 5    | 6    | 7    | 9     | 15.05  | 82068.2 | 326.52 | 18.083 | 74.387 | 43.762 | 163.54 | 269.84 | 8.3779 | 28.039 | 4688.9 | 6.3445 | 5.6349 | 0.52   | 635.07 | 38.066 | Haagwinde   |
| Myrica gale-sl              | 5    | 8    | 6    | 2    | 9    | 3    | 3     | 21.15  | 5573.49 | 21.822 | -32.09 | 2.3885 | -18.52 | 65.640 | 185.61 | 12.531 | 0.6511 | 4267.4 | 4.6516 | 3.8936 | 0.19   | 1061.5 | 26.593 | Wilde gagel |
| Phragmites australis-kl     | 2a   | 7    | 5    | X    | 10   | 7    | 7     | 15.80  | 03204.6 | 891.67 | -17.28 | 35.491 | -1.566 | 181.94 | 450.78 | 10.241 | 11.059 | 6606.6 | 6.0829 | 5.5435 | 0.62   | 739.55 | 43.834 | Riet        |
| Rubus species-sl            | +    |      |      |      |      |      |       | 20.47  | 588.969 | 21.514 | 78.470 | 157.90 | 73.201 | 42.338 | 31.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26   | 646.10 | 14.214 | Braam (G)   |
| Salix caprea-sl             | r    | 7    | X    | 3    | 6    | 7    | 7     | 17.97  | 9490.38 | 228.47 | 51.121 | 115.95 | 58.956 | 71.581 | 78.708 | 8.2649 | 12.045 | 2442.8 | 5.6492 | 4.9358 | 0.41   | 383.80 | 23.142 | Boswilg     |
| Salix cinerea s. cinerea-sl | 2a   |      |      |      |      |      |       |        |         |        |        |        |        |        |        |        |        |        |        |        |        |        |        | Grauwe wilg |
| Thelypteris palustris-kl    | r    | 5    | 6    | X    | 8    | 5    | 6     | 17.40  | 43542.7 | 284.09 | -15.79 | 38.560 | 3.2537 | 149.68 | 662.31 | 12.806 | 16.685 | 6690.1 | 5.2859 | 4.5843 | 0.23   | 1109.3 | 41.717 | Moerasvaren |
| Gemiddelde indicatie        | 6.7  | 5.6  | 3.3  | 8.0  | 5.8  | 6.4  | 19.0  | 1340.8 | 227.3   | 28.5   | 90.9   | 34.4   | 97.6   | 231.9  | 11.2   | 13.0   | 4091.2 | 5.1    | 4.4    | 0.3    | 695.4  | 27.9   |        |             |
| Standaarddeviatie           | 1.2  | 0.5  | 1.1  | 1.5  | 1.5  | 2.0  | 3.0   | 1314.7 | 279.1   | 46.5   | 62.1   | 33.2   | 55.5   | 210.0  | 1.8    | 9.2    | 1764.5 | 0.9    | 0.9    | 0.2    | 258.3  | 12.2   |        |             |
| Mediaan waarde              | 7.0  | 6.0  | 3.0  | 8.5  | 6.5  | 7.0  | 18.6  | 652.0  | 129.1   | 27.7   | 89.2   | 43.2   | 77.3   | 174.1  | 12.1   | 11.6   | 4130.4 | 5.1    | 4.5    | 0.2    | 642.1  | 27.5   |        |             |
| Som                         | 47.0 | 28.0 | 13.0 | 48.0 | 35.0 | 32.0 | 152.3 | *****  | 1818.8  | 228.1  | 727.4  | 274.9  | 780.9  | 1855.3 | 89.3   | 104.1  | *****  | 40.9   | 35.5   | 2.7    | 5562.8 | 223.2  |        |             |
| Aantal observaties (n)      | 7.0  | 5.0  | 4.0  | 6.0  | 6.0  | 5.0  | 8.0   | 8.0    | 8.0     | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    |             |

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH(Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indiffernt, ?: onbekend

Wamelink:

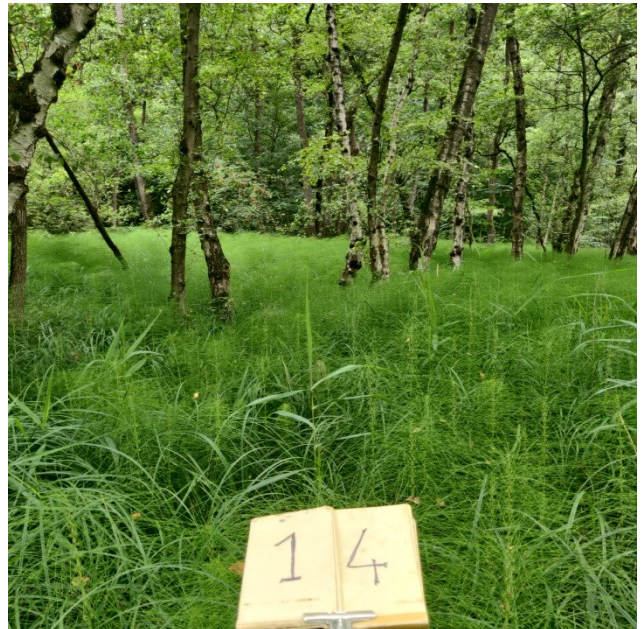
C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 126

Objectnaam : geuldert 14 (18no)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/07/13  
X-coördinaat (km) : 192.553000  
Y-coördinaat (km) : 416.787000  
Bloknummer : 46-23-43-57  
Latitude : 51.738540  
Longitude : 5.930881  
Lengte proefvlak (m) : 10.00  
Breedte proefvlak (m) : 10.00  
Opp. proefvlak (m<sup>2</sup>) : 100.00  
Expositie : Zuidoost  
Hellingshoek (graden) : 3  
Altitude : 56  
Bedekking totaal (%) : 100  
Bedekking boomlaag (%) : 70  
Boom\_c2 : 5  
Bedekking struiklaag (%) : 2  
Bedekking kruidlaag (%) : 70  
Bedekking moslaag (%) : 10  
Bedekking strooisellaag (%) : 90  
Hoogte (hoge) boomlaag (m) : 20  
Hoogte lage boomlaag (m) : 10  
Hoogte (hoge) struiklaag (m) : 0.6  
Gem. hoogte (hoge) kruidl (cm) : 150  
Maximale hoogte kruidlaag (cm) : 170  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : vochtig loofbos  
Selectiedoel landelijk : H91D0  
IPI : Berkenbroekbos  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296xxx  
Stamnummer PQ : 214  
Startjaar PQ : 2015  
Volledighd : 1  
Eigenaar\_b : nm  
Vegetatie : 40-1 Berk met Reuzenpaardenstaart en Moeraszegge  
Bodem : veenpakket



Opmerkingen: droog(gevallen), lokaal kwel, bewegend water

#### Associa analysis

Syntaxon Index Norm.Lh. Incompl. Weirtn.

| Syntaxon | Index | Norm.Lh. | Incompl. | Weirtn. |
|----------|-------|----------|----------|---------|
| 36AA01   | 34.3  | 0.1      | 0.4      | 0.0     |
| 40AA02A  | 35.8  | -0.1     | 0.2      | -0.2    |
| 40AA02B  | 36.2  | 0.4      | 0.3      | 0.4     |
| 39AA02E  | 43.5  | 0.2      | 0.5      | 0.1     |
| 39RG03   | 44.2  | 0.7      | 0.3      | 0.9     |
| 39AA02B  | 44.9  | 0.2      | 0.5      | 0.0     |
| 36RG01   | 45.2  | 0.8      | 0.9      | 0.8     |
| 39AA01B  | 45.4  | 0.4      | 0.6      | 0.3     |
| 43AA04   | 46.5  | 0.0      | 0.5      | -0.3    |
| 39AA01A  | 46.6  | 0.5      | 0.6      | 0.4     |

|                                          |   |                        |
|------------------------------------------|---|------------------------|
| Acer pseudoplatanus-b2                   | x | Gewone esdoorn         |
| Alnus glutinosa-b2                       | + | Zwarte els             |
| Betula pubescens-b1                      | 4 | Zachte berk            |
| Betula pubescens-s1                      | r | Zachte berk            |
| Carex acutiformis-kl                     | 3 | Moeraszegge            |
| Equisetum telmateia-kl                   | 3 | Reuzenpaardenstaart    |
| Hypnum cupressiforme (excl. H. andoi)-m1 | + | Gesnaveld klauwtjesmos |
| Leucobryum glaucum-m1                    | + | Kussentjesmos          |
| Phragmites australis-kl                  | 1 | Riet                   |
| Quercus robur-b2                         | + | Zomereik               |
| Rubus species-s1                         | + | Braam (G)              |
| Sorbus aucuparia-b2                      | r | Wilde lijsterbes       |
| Sphagnum squarrosum-m1                   | + | Haakveenmos            |
| Thelypteris palustris-kl                 | r | Moerasvaren            |
| Thuidium tamariscinum-m1                 | 1 | Gewoon thujamos        |

|                          |   | L    | T    | C    | V    | PH   | N    | W_C   | N_W_CA  | W_CL   | W_GHG     | W_GLG | W_GVG     | W_K   | W_MG    | W_NH4  | W_NO3  | W_NTO  | W_PHH  | W_PHK  | W_PO4 | W_PTO  | W_VOC  |                        |
|--------------------------|---|------|------|------|------|------|------|-------|---------|--------|-----------|-------|-----------|-------|---------|--------|--------|--------|--------|--------|-------|--------|--------|------------------------|
| Acer pseudoplatanus-b2   | x | 4    | X    | 4    | 6    | X    | 7    | 20.09 | 8207.39 | 17.480 | 90.7421   | 58.84 | 103.69    | 49.07 | 142.057 | 9.9889 | 25.736 | 1790.9 | 4.7812 | 4.3061 | 0.23  | 395.30 | 14.066 | Gewone esdoorn         |
| Alnus glutinosa-b2       | + | 5    | 5    | 3    | 9=   | 6    | X    | 19.30 | 4730.41 | 29.736 | 37.2781   | 04.07 | 42.720    | 83.01 | 8162.67 | 12.270 | 24.071 | 3993.4 | 4.9414 | 4.3324 | 0.23  | 638.10 | 28.502 | Zwarte els             |
| Betula pubescens-b1      | 4 | 7    | X    | X    | 8    | 3    | 3    | 23.07 | 5137.94 | 18.336 | 63.6951   | 44.28 | 33.529    | 40.42 | 139.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk            |
| Betula pubescens-s1      | r | 7    | X    | X    | 8    | 3    | 3    | 23.07 | 5137.94 | 18.336 | 63.6951   | 44.28 | 33.529    | 40.42 | 139.132 | 12.322 | 1.6136 | 2551.3 | 4.2274 | 3.5441 | 0.21  | 382.16 | 14.900 | Zachte berk            |
| Carex acutiformis-kl     | 3 | 7    | X    | 3    | 9*   | 7    | 5    | 16.84 | 65260.5 | 177.85 | -2.6844   | 9.780 | 15.513    | 155.0 | 3595.26 | 13.512 | 13.186 | 7261.8 | 5.3648 | 4.6898 | 0.30  | 1456.7 | 49.668 | Moeraszegge            |
| Equisetum telmateia-kl   | 3 | 5    | 6    | 2    | 8    | 8    | 5    | 18.24 | 43329.3 | 30.645 | 44.3521   | 01.14 | 42.400    | 131.3 | 7237.62 | 9.9450 | 34.598 | 4476.3 | 5.3911 | 4.9683 | 0.18  | 593.90 | 38.927 | Reuzenpaardenstaart    |
| Hypnum cupressiforme-ml  | + |      |      |      |      |      |      |       |         |        |           |       |           |       |         |        |        |        |        |        |       |        |        | Gesnaveld klauwtjesmos |
| Leucobryum glaucum-ml    | + | 4    | 3    | 4    | 6    | 1    | 2    | 30.50 | 43.8618 | 9.7331 | 143.922   | 37.81 | 74.650    | 11.75 | 86.4638 | 11.741 | 0.0790 | 1320.5 | 3.0608 | 2.3182 | 0.17  | 435.39 | 1.0000 | Kussentjesmos          |
| Phragmites australis-kl  | 1 | 7    | 5    | X    | 10   | 7    | 7    | 15.80 | 03204.6 | 891.67 | -17.283   | 5.491 | -1.566    | 181.9 | 4450.78 | 10.241 | 11.059 | 6606.6 | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 | Riet                   |
| Quercus robur-b2         | + | 7    | 6    | 6    | X    | X    | X    | 22.80 | 452.813 | 14.939 | 95.7061   | 82.86 | 80.269    | 30.29 | 919.708 | 11.306 | 2.6867 | 1692.1 | 3.9789 | 3.3492 | 0.28  | 314.35 | 9.4500 | Zomereik               |
| Rubus species-s1         | + |      |      |      |      |      |      | 20.47 | 588.969 | 21.514 | 78.4701   | 57.90 | 73.201    | 42.33 | 831.229 | 12.945 | 10.559 | 2278.0 | 4.2628 | 3.6508 | 0.26  | 646.10 | 14.214 | Braam (G)              |
| Sorbus aucuparia-b2      | r | 6    | X    | X    | X    | 4    | X    | 23.37 | 762.910 | 16.696 | 97.6511   | 85.63 | 75.249    | 30.73 | 620.999 | 12.851 | 4.4429 | 2124.8 | 3.8335 | 3.3160 | 0.21  | 458.48 | 9.5259 | Wilde lijsterbes       |
| Sphagnum squarrosum-ml   | + | 4    | X    | 5    | 8    | 4    | 4    | 18.52 | 02006.1 | 191.20 | -7.6694   | 4.978 | 6.2577    | 109.4 | 6419.17 | 12.775 | 5.2667 | 5761.9 | 5.0049 | 4.3240 | 0.22  | 1026.4 | 36.506 | Haakveenmos            |
| Thelypteris palustris-kl | r | 5    | 6    | X    | 8    | 5    | 6    | 17.40 | 43542.7 | 284.09 | -15.793   | 8.560 | 3.2537    | 149.6 | 8662.31 | 12.806 | 16.685 | 6690.1 | 5.2859 | 4.5843 | 0.23  | 1109.3 | 41.717 | Moerasvaren            |
| Thuidium tamariscinum-ml | 1 | 4    | 4    | 4    | 6    | 4    | 4    | 21.77 | 4131.67 | 17.528 | 89.9251   | 79.20 | 52.378    | 38.91 | 034.427 | 10.293 | 3.5564 | 2127.9 | 4.4445 | 3.7841 | 0.22  | 308.14 | 6.3513 | Gewoon thujamos        |
| Gemiddelde indicatie     |   | 5.5  | 5.0  | 3.9  | 7.8  | 4.7  | 4.6  | 20.8  | 1349.8  | 124.3  | 54.4      | 126.1 | 45.4      | 78.2  | 197.2   | 11.8   | 11.1   | 3659.1 | 4.6    | 4.0    | 0.3   | 634.7  | 23.1   |                        |
| Standaarddeviatie        |   | 1.3  | 1.1  | 1.2  | 1.3  | 2.0  | 1.6  | 3.6   | 1705.9  | 228.7  | 48.2      | 62.2  | 31.5      | 54.2  | 226.5   | 1.2    | 10.3   | 2034.4 | 0.8    | 0.8    | 0.1   | 330.8  | 15.5   |                        |
| Mediaan waarde           |   | 5.0  | 5.0  | 4.0  | 8.0  | 4.0  | 4.5  | 20.3  | 172.7   | 19.9   | 63.7      | 144.3 | 42.6      | 45.7  | 40.6    | 12.3   | 7.9    | 2551.4 | 4.6    | 4.0    | 0.2   | 526.2  | 14.9   |                        |
| Som                      |   | 72.0 | 35.0 | 31.0 | 86.0 | 52.0 | 46.0 | 291.3 | *****   | 1739.8 | 762.01764 | 9     | 635.11094 | 5     | 2761.0  | 165.3  | 155.2  | *****  | 64.9   | 56.3   | 3.6   | 8886.2 | 323.6  |                        |
| Aantal observaties (n)   |   | 13.0 | 7.0  | 8.0  | 11.0 | 11.0 | 10.0 | 14.0  | 14.0    | 14.0   | 14.0      | 14.0  | 14.0      | 14.0  | 14.0    | 14.0   | 14.0   | 14.0   | 14.0   | 14.0   | 14.0  | 14.0   | 14.0   |                        |

L (Licht)- 1: volle schaduwplant - 9: volle lichtplant

T (Temperatuurgevoeligheid) van 1-9

C (Continentaliteit) van 1-9

V (Vocht)- 1: extreem droog - 9: nat, , \*: wisselende grondwaterstand, =: inundatie

PH(Zuurgraad) - 1: sterk zuur - 9: sterk basisch/kalkrijk

N (Voedselrijkdom) - 1: zeer voedselarm - 9: zeer uitgesproken voedselrijk

X: indifferent, ?: onbekend

Wamelink:

C/N koolstof/stikstofratio

Ca Calcium, Cl Chloor, K Kalium, MG Magnesium, NH4 Ammonium, NO3 Nitraat, P04 Fosfaat in mg/kg en NTO Totaal Stikstof en PTO Totaal Fosfaat in g/kg

GHG Gemiddelde Hoge Grondwaterstand, GLG Gemiddelde Lage Grondwaterstand, GVG Gemiddelde Voorjaarsgrondwaterstand in cm boven maatveld

=> Opnamenummer: 127

Objectnaam : Geuldert 15 (14c)  
Abundantieschaal : Braun/Blanquet (B,D&S)  
Project : Geuldert  
Waarnemer(s) : Jos Bonnemayer & Rian Wolfs  
Datum (jaar/maand/dag) : 2022/08/11  
X-coördinaat (km) : 192.410000  
Y-coördinaat (km) : 416.684000  
Bloknummer : 46-23-43-46  
Latitude : 51.737620  
Longitude : 5.928798  
Lengte proefvlak (m) : 4.00  
Breedte proefvlak (m) : 2.50  
Opp. proefvlak (m<sup>2</sup>) : 10.00  
Expositie : West  
Hellingshoek (graden) : 0  
Bedeckking kruidlaag (%) : 60  
Cov\_water : 40  
Gem. hoogte (hoge) kruidl (cm) : 100  
Provincie : Limburg  
Terreinbeheerder/-eigenaar : Natuurmonumenten  
Natuurtype LMF2018 : open moeras  
Selectiedoel landelijk : H7210  
IPI : Riet- en biesenland  
Beheer (1) : onbekend  
Opname met (korst-)mossen : mossen en korstmossen opgenomen  
Opnamenummer LVD : 296xxx  
Stamnummer PQ : 215  
Startjaar PQ : 2015  
Volledighd : 1  
Eigenaar\_b : nm  
Vegetatie : 8-1 Rietmoeras met Gagel (oevervegetatie)  
Bodem : zompig veen (50-100cm)



Opmerkingen: 3x in afgelopen 4 jaar droog en in 40 jaar niet (bewoner).

#### Associa analysis

Syntaxon Index Norm.Lh. Incompl. Weirndn.

| 08BC03  | 23.8 | 0.2 | 0.1  | 0.3  | Caricetum vesicariae              |
|---------|------|-----|------|------|-----------------------------------|
| 08BA02B | 24.6 | 0.0 | 0.4  | -0.2 | Cicuto-Caricetum menyanthesetosum |
| 08BD01  | 29.8 | 0.7 | -0.1 | 1.0  | Cladietum marisci                 |
| 08RG01  | 30.5 | 0.9 | 1.1  | 0.8  | RG Glyceria maxima-[Phragmitetea] |
| 08BA02A | 30.8 | 0.5 | 0.6  | 0.4  | Cicuto-Caricetum typicum          |
| 08BD02  | 30.9 | 0.1 | 0.4  | 0.0  | Caricetum paniculatae             |
| 08BB04C | 32.1 | 0.4 | 0.0  | 0.5  | Typho-Phragmitetum typicum        |
| 06AC02  | 32.1 | 1.3 | 1.5  | 1.2  | Scirpetum fluitantis              |
| 08BD03  | 32.1 | 0.4 | 0.8  | 0.2  | Caricetum elatae                  |
| 06AC03  | 32.3 | 0.9 | 1.0  | 0.9  | Eleocharitetum multicaulis        |

|                            |    |                        |
|----------------------------|----|------------------------|
| Carex vesicaria-kl         | 3  | Blaaszegge             |
| Cladium mariscus-kl        | +  | Galigaan               |
| Juncus effusus-kl          | r  | Pitrus                 |
| Lycopus europaeus-kl       | +  | Wolfspoot              |
| Lysimachia vulgaris-kl     | r  | Grote wederik          |
| Lythrum salicaria-kl       | 1  | Grote kattenstaart     |
| Mentha aquatica-kl         | +  | Watermunt              |
| Nymphaea alba-kl           | 2b | Witte waterlelie       |
| Phragmites australis-kl    | +  | Riet                   |
| Solanum dulcamara-kl       | +  | Bitterzoet             |
| Sparganium erectum s.l.-kl | r  | Grote egelskop (groep) |
| Typha latifolia-kl         | +  | Grote lisdodde         |

|                            |    | L    | T    | C    | V     | PH   | N    | W_C_N | W_CA    | W_CL   | W_GHG  | W_GLG  | W_GVG  | W_K    | W_MG   | W_NH4  | W_NO3  | W_NTO  | W_PHH  | W_PHK  | W_PO4 | W_PTO  | W_VOC  |                        |
|----------------------------|----|------|------|------|-------|------|------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|------------------------|
| Carex vesicaria-kl         | 3  | 7    | 4    | X    | 9=    | 6    | 5    | 15.70 | 24983.5 | 154.68 | -24.47 | 16.188 | -5.434 | 192.48 | 458.16 | 10.048 | 7.8531 | 7746.9 | 5.4922 | 4.7267 | 0.24  | 1636.1 | 55.755 | Blaaszegge             |
| Cladium mariscus-kl        | +  | 9    | 6    | 3    | 10    | 9    | 3    | 16.95 | 93862.2 | 414.24 | -47.39 | -12.73 | -31.23 | 151.49 | 765.52 | 12.133 | 5.4107 | 6705.4 | 5.3041 | 4.6060 | 0.19  | 1349.7 | 42.436 | Galigaan               |
| Juncus effusus-kl          | r  | 8    | 5    | 3    | 7     | 3    | 4    | 17.14 | 51394.0 | 31.329 | 2.0007 | 45.081 | 9.1896 | 115.65 | 154.79 | 9.8592 | 4.0727 | 5366.6 | 5.1215 | 4.3775 | 0.38  | 650.82 | 38.562 | Pitrus                 |
| Lycopus europaeus-kl       | +  | 7    | 6    | 5    | 9=    | 7    | 7    | 15.85 | 52677.0 | 438.43 | -22.44 | 25.164 | -1.558 | 203.42 | 451.95 | 10.596 | 22.734 | 6123.9 | 5.8892 | 5.1555 | 0.27  | 913.43 | 41.432 | Wolfspoot              |
| Lysimachia vulgaris-kl     | r  | 6    | X    | X    | 8*    | X    | X    | 17.37 | 61745.1 | 29.592 | -8.932 | 38.448 | 6.0009 | 106.49 | 262.24 | 11.118 | 7.7044 | 5864.2 | 5.1669 | 4.4684 | 0.25  | 689.45 | 42.910 | Grote wederik          |
| Lythrum salicaria-kl       | 1  | 7    | 5    | 5    | 8=    | 6    | X    | 15.56 | 34011.6 | 296.65 | -27.05 | 16.427 | -6.453 | 174.26 | 456.05 | 9.7215 | 10.483 | 7355.5 | 5.6473 | 4.8642 | 0.26  | 845.01 | 48.780 | Grote kattenstaart     |
| Mentha aquatica-kl         | +  | 7    | 5    | 3    | 9=    | 7    | 5    | 14.35 | 45735.0 | 680.88 | -32.54 | 16.554 | -14.97 | 265.26 | 518.84 | 8.7586 | 16.280 | 8357.3 | 6.1973 | 5.3271 | 0.35  | 826.02 | 49.104 | Watermunt              |
| Nymphaea alba-kl           | 2b | 8    | 6    | 3    | 11    | 7    | 5    | 15.57 | 76401.8 | 436.13 | -39.82 | -16.65 | -20.21 | 301.97 | 831.43 | 14.074 | 17.020 | 9809.4 | 5.7128 | 4.9715 | 1.05  | 1532.8 | 50.798 | Witte waterlelie       |
| Phragmites australis-kl    | +  | 7    | 5    | X    | 10    | 7    | 7    | 15.80 | 03204.6 | 891.67 | -17.28 | 35.491 | -1.566 | 181.94 | 450.78 | 10.241 | 11.059 | 6606.6 | 6.0829 | 5.5435 | 0.62  | 739.55 | 43.834 | Riet                   |
| Solanum dulcamara-kl       | +  | 7    | 5    | X    | 8*    | X    | 8    | 17.07 | 11000.3 | 283.23 | 23.180 | 78.885 | 25.500 | 123.32 | 246.35 | 12.232 | 39.815 | 3947.2 | 5.7258 | 5.2705 | 0.28  | 598.70 | 30.266 | Bitterzoet             |
| Sparganium erectum s.l.-kl | r  | 7    | 6    | 5    | 10    | 7    | 7    | 14.93 | 15217.2 | 495.41 | -23.39 | 13.037 | -1.162 | 298.93 | 697.63 | 12.926 | 34.565 | 12263. | 6.0064 | 5.0429 | 1.00  | 1367.7 | 55.053 | Grote egelskop (groep) |
| Typha latifolia-kl         | +  | 8    | 6    | 5    | 10    | 7    | 8    | 14.90 | 34198.4 | 598.39 | -28.67 | 5.6228 | -8.953 | 248.10 | 599.73 | 12.319 | 20.721 | 9237.4 | 6.2130 | 5.4260 | 0.37  | 1354.4 | 54.357 | Grote lisdodde         |
| Gemiddelde indicatie       |    | 7.3  | 5.4  | 4.0  | 9.1   | 6.6  | 5.9  | 15.9  | 3702.6  | 395.9  | -20.6  | 21.8   | -4.2   | 196.9  | 491.1  | 11.2   | 16.5   | 7448.7 | 5.7    | 5.0    | 0.4   | 1042.0 | 46.1   |                        |
| Standaarddeviatie          |    | 0.7  | 0.6  | 1.0  | 1.1   | 1.4  | 1.6  | 0.9   | 1670.4  | 246.6  | 18.1   | 24.8   | 13.9   | 65.7   | 199.4  | 1.5    | 10.9   | 2140.9 | 0.4    | 0.4    | 0.3   | 360.5  | 7.3    |                        |
| Mediaan waarde             |    | 7.0  | 5.0  | 4.0  | 9.0   | 7.0  | 6.0  | 15.8  | 3936.9  | 425.2  | -23.9  | 16.5   | -3.5   | 187.2  | 457.1  | 10.9   | 13.7   | 7030.5 | 5.7    | 5.0    | 0.3   | 879.2  | 46.3   |                        |
| Som                        |    | 88.0 | 59.0 | 32.0 | 109.0 | 66.0 | 59.0 | 191.2 | *****   | 4750.7 | -246.8 | 261.5  | -50.9  | 2363.4 | 5893.5 | 134.0  | 197.7  | *****  | 68.6   | 59.8   | 5.3   | *****  | 553.3  |                        |
| Aantal observaties (n)     |    | 12.0 | 11.0 | 8.0  | 12.0  | 10.0 | 10.0 | 12.0  | 12.0    | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 12.0  | 12.0   | 12.0   |                        |

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